# Arizona Mined Land Reclamation Plan

## Rosemont Copper World Project

August 2021

(original June 7, 2021, updated June 21, 2021, updated August 26, 2021)

#### Prepared by:

Rosemont Copper Company and CDM Smith



Arizona Business Unit 5255 E. Williams Circle, Suite 1065 Tucson, Arizona 85711-7407 tel 520-495-3500

Hudbayminerals.com



# **Table of Contents**

Section 1 Introduction       1-1         1.1 Name, Address of Owner or Operator and Regulatory Contact - § R27-971, B.1       1-1         1.2 Certificate of Disclosure of Violations - § R27-905       1-1
Section 2 Regulatory Responsibility Statement - § R27-971, B.22-1
Section 3 Current Land Ownership and Use of Land - § R27-971, B.33-1
Section 4 Proposed Post-Mining Use of Land - § R27-971, B.44-1
Section 5 Description of the Mining Unit and Proposed Surface Disturbance Created - § R27-971, B.55-1
Section 6 Existing and Proposed Final Topography § R27-971, b.66-1
Section 7 Narrative Description of Proposed Roads § R27-971, B.77-1
Section 8 Acreage Affected by Each Type of Surface Disturbance with Map § R27-971,
B.88-1
Section 9 Proposed Reclamation Measures to Achieve Post Mining Land Use § R27-971, B.99-1
9.1 Measures that will be taken to Restrict Public Access to the Project § R27-971, B.9a 9-1 9.2 Measures that will be taken to Address Erosion Control and Stability § R27-971, B.9b 9-2 9.3 Measures to Address Revegetation, Conservation, and the Care and Monitoring of Revegetated Areas § R27-971, B.9c
Section 10 A Proposed Schedule for Reclamation Measures § R27-971, B.1010-1
Section 11 Estimated Costs to Perform Each of the Proposed Reclamation Measures § R27-971, B.11
Sartian 17 Deference



# List of Figures

Figure 1 Vicinity Map

Figure 2 Utility Corridor

Figure 3 Proposed Project Facilities

Figure 4 Existing Topography

Figure 5 Proposed Topography

## List of Exhibits

Exhibit 1 Rosemont Copper World Project

#### List of Tables

Table 1 Mined Land Reclamation Plan Requirements	iii
Table 2 Disturbance Acreages	
Table 3 Reclamation Cost Summary	

## **Appendices**

Appendix A Reclamation Cost Estimates



Table 1 presents the requirements of the A.R.S. Title 27, Chapter 5, § R27-901 et seq., a description of the requirements, and the section within this Mined Land Reclamation Plan (MLRP) where these requirements are addressed.

**Table 1 Mined Land Reclamation Plan Requirements** 

A.R.S. Section	Requirement	Section in Plan	
R27-905	Certificate of Disclosure	1.2	
R27-971, B.1.	B.1. Names, addresses of owner or operator and regulatory contact		
R27-971, B.2.	Statement that owner or operator assumes responsibility for reclamation of surface disturbances	2	
R27-971, B.3.	Current ownership and use of land in mining unit	3	
R27-971, B.4.	Proposed post mining use of land	4	
R27-971, B.5.	Description of mining unit and proposed surface disturbance	5	
R27-971, B.6.	Existing topography	6 and Figure 4	
R27-971, B.6.	Proposed final topography	6 and Figure 5	
R27-971, B.7.	Narrative description of roads	7	
R27-971, B.8.	Acreage affected by each type of surface disturbance and map of mining unit area showing each surface disturbance	8 and Table 2	
R27-971, B.9.	Proposed reclamation measures to achieve the post-mining use	9	
R27-971, B.9a.	Measures to restrict public access to pits, adits, shafts, and other surface features	9.1	
R27-971, B.9b	Measures to address erosion control and stability	9.2	
R27-971, B.9c	Measures to address revegetation, conservation and care and maintenance or revegetated areas	9.3	
R27-971, B.9d.	Types of wildlife and fish to be encouraged	9.4	
R27-971, B.10.	Proposed tentative schedule for beginning surface disturbances and beginning and completing the reclamation measures	10	
R27-971, B.11.	Estimated cost to perform each of the proposed reclamation	11	





#### Introduction

# 1.1 Name, Address of Owner or Operator and Regulatory Contact - § R27-971, B.1

#### **Applicant**

Rosemont Copper Company 5255 East Williams Circle, Suite 1065 Tucson, Arizona 85711 (520) 495-3500

#### Owner/Operator

Rosemont Copper Company 5255 East Williams Circle, Suite 1065 Tucson, Arizona 85711 (520) 495-3500

#### **Regulatory Contact**

Mr. David Krizek Environmental Manager 5255 East Williams Circle, Suite 1065 Tucson, Arizona 85711 (520) 495-3527

#### 1.2 Certificate of Disclosure of Violations - § R27-905

Rosemont Copper Company is not subject to the Certification of Disclosure requirements of A.R.S. Title 27, Chapter 5,  $\S$  R27-905 because the Rosemont Copper Company is neither:

- 1. A person who is engaged in an activity subject to regulation under this chapter and who has been convicted of a felony involving laws related to mined land reclamation within the five-year period immediately preceding execution of the certificate.
- 2. A person who is engaged in an activity subject to regulation under this chapter and who is or has been subject in any civil proceeding to an injunction, decree, judgment or permanent order of any state or federal court within the five-year period immediately preceding the execution of the certificate that involved a violation of laws of that jurisdiction relating to mined land reclamation.





# Regulatory Responsibility Statement - § R27-971, B.2

Rosemont Copper Company assumes responsibility for reclamation of surface disturbances that are attributable to the Rosemont Copper World Project (Project) consistent with Mining Unit Reclamation Plan elements identified in Arizona Revised Statutes §§ 27-901-997 and Arizona Administrative Code R11-2-201 through R11-2-822.

Name: Mr. Andre Lauzon

Signature:

Title: Vice President, Arizona Business Unit, Hudbay Minerals

Date: August 26, 2021



# Current Land Ownership and Use of Land - § R27-971, B.3

The core of the Rosemont Copper Company land holdings in the general area of Rosemont's Copper World Project consists of 141 patented lode claims that total an area of 2,004 acres. Additionally, there are also 1,426 acres of fee (private) land in the general Project area. The area covered by the patented claims and fee lands in the general Project area therefore totals approximately 3,430 acres (see attached Figures 1 and 2).

Rosemont has additional land holdings that are distal from the main Project area for infrastructure purposes such as well fields, a pump station, and electric power distribution. These lands compromise an additional 73 acres (see attached Figures 1 and 2).

All private/patented land described above are held by Rosemont Copper Company, a subsidiary of Hudbay Minerals, Inc. (Hudbay).

Current land use reflects a mixture of mining activities, ranching, wildlife habitat, and limited recreational use. Access to most of the patented land is restricted to the public via gated roads.

The Rosemont property is also part of the existing Rosemont Ranch, a ranching facility with over 30,000 acres of grazing lands and leases.





# Proposed Post-Mining Use of Land - § R27-971, B.4

The post-mining land use for the areas covered in this MLRP will include on-going ranching and wildlife habitat. Much of the top surfaces of the post-mining reclaimed facilities will be ideal for grazing once vegetation is established. Public access restrictions to Rosemont's property is anticipated to remain in place post-mining.





# Description of the Mining Unit and Proposed Surface Disturbance Created - § R27-971, B.5

In general, Rosemont's Copper World Project will include the following facilities:

- Open pit mines
- Waste Rock Storage Area
- Tailings Storage Facilities (TSF)
- Processing facilities including an MIA (Mine Infrastructure Area)
- Ancillary facilities such as offices, warehouses, and storage yards
- Utilities (water and power)
- Haul Roads and miscellaneous plant site/service roads

The locations of these facilities are shown on Figures 2 and 3. Note: The plant and service roads are not shown on these figures.

The main mine facilities will be located in Township 18 South and Range 15 East within the following sections (see Exhibit 1):

**▼** T18S R15E, Sections 10, 13, 14, 15, 22, 23, and 24

The power and water utilities are located in a long linear corridor shown on Figure 2 within the following sections (Note: Township and range are only shown on Figure 2):

- \* T18S R15E, Sections 7, 17, 18, 20,21
- \* T18S, R14E, Sections 1, 2, 12
- \*\* T17E, R14E, Sections 17. 18, 19, 20, 29, 32, 33, 34, 35

Right-of-Ways (ROWs) have been established through State land with the Arizona State Land Department (ASLD) for these power and water utilities. Additionally, a license agreement has been established with the Town of Sahuarita (TOS) related to water utilities.

The production wells are located on private Rosemont land within the following sections and on the following parcels:

- Sanrita South: T17S, R14E, Section 29 (parcel 303-54-005B)
- Sanrita West: T17S, R14E, Section 17 (parcel 303-60-1410)

The Sanrita South parcel will so have a switchyard and is the start of the electrical transmission line through State land to the Rosemont Copper World Project property.



#### Open Pit Mine

The mine will consist of two open pit areas, Peach-Elgin and Copper World, for a total of approximately 99 million short tons of material mined; 61 million short tons from Peach-Elgin and 38 million short tons from Copper World.

The Peach-Elgin pit(s) will be constructed with 50-foot benches and a bottom bench starting at an elevation of 4,680 feet above mean sea level (ft amsl). The final pit, although not conical, will measure approximately 1,200 feet (ft) in diameter and will have a total depth of 780 ft. The pit slope angles will be 45 degrees.

The Copper World pit will be constructed with 50-foot benches and a bottom bench starting at an elevation of 5,180 ft amsl. The pit slope angles for this deposit will be 45 degrees. The Copper World final pit is not conical but will measure approximately 1,100 ft in diameter and will have a total depth of 730 ft.

Mining operations will use typical large-scale equipment including mining shovels, haul trucks, and rotary blast hole drills.

#### **Waste Rock Storage Area**

Waste rock material from both deposits, Peach-Elgin and Copper World, as well as overburden will be placed between the two deposits, east of the Peach-Elgin deposits. The total waste is 64 million short tons; 41 million short tons from Peach-Elgin and 23 million short tons from Copper World. The loading plan suggest 100 ft lifts with a maximum of 3 lifts.

The Waste Rock Storage Area configuration is approximately 300 ft in height, 3,000 ft in length and 2,000 ft in width.

#### **Tailings Storage Facilities**

Three tailings storage facilities have been identified as TSF-1, TSF-2, and TSF-3. Each tailings facility is a conventional impoundment and each will have a raised embankment.

TSF 1 is the smallest impoundment with a final length of about 4,000 ft and located in the south part of the property. The volume required is approximately 14 million cubic yards (Myd3).

TSF 2 is second largest of the impoundments. This impoundment is located south of TSF-3 and north of TSF 1 on the west side of the property. The volume required is approximately 19 Myd3.

TSF 3 is the largest of the impoundments. This impoundment is located at the northern part of the property. The volume required is approximately 45 Myd3.

#### **Processing and Ancillary facilities**

Processing facilities area is a conventional copper-molybdenum concentrator. The process involves crushing, grinding, flotation, molybdenum separation, concentrate dewatering and tailings dewatering.

The primary crusher is located south of the Peach-Elgin pit area and is in the Mine Infrastructure Area (MIA). This area also has the maintenance shop, fuel station, and vehicle wash station. The MIA will also have an office, a change house and the main warehouse.



Material from the primary crusher is conveyed to a stockpile where material is drawn off the stockpile using feeders. These feeders feed the milling circuit.

The milling process includes the typical SAG-Ball Mill-Pebble Crushing circuit located west of the crusher. The flotation is a rougher and cleaner froth flotation. A copper-molybdenum separation step generates the final copper and molybdenum concentrate products. The copper cleaner concentrate is fed to a copper-molybdenum thickener and the tailings is fed to a 2nd copper cleaner flotation cell circuit.

The thickened copper-molybdenum concentrate is fed to a molybdenum rougher conditioning tank and molybdenum rougher/scavenger flotation cell circuit. Molybdenum concentrate product from the final cleaner stage of the separation circuit, and copper concentrate from the molybdenum rougher tails, are thickened and press filtered.

The copper concentrate is loaded onto trucks and/or stockpiled, while the molybdenum concentrate is dried and loaded into drums.

Flotation tailings from the copper rougher and copper cleaner scavenger circuits are thickened and pumped to the TSFs.

Reagents are stored, mixed and distributed from a central reagents area. The frother, collector, and depressant are pumped from the reagents area to head tanks in the flotation section.

Reject tailings from the milling process will be pumped as slurry and conveyed to the tailings facilities in 24-inch (or less) diameter pipelines. The pipeline from the plant site to TSF-2 will be underground and will be constructed to avoid surface disturbance to BLM land (see Figure 3).

#### **Utilities**

The utilities associated with the Project include a freshwater pipeline (including well fields and pump stations), a utility maintenance road, and a high voltage transmission line. These will be located within a utility corridor and terminate near the flotation plant.

The high voltage transmission line will terminate at a substation in the flotation plant area and will provide distribution power to the site.

The fresh water distribution system (FWDS) waterline begins at a pump station on Rosemont's Sanrita South property and terminates into a second pump station on Rosemont's property located south/southwest of the flotation plant. Distribution water will then be taken from the pump station into a freshwater tank and distributed as needed to site facilities.

Production water wells are located on Rosemont's Sanrita South and Sanrita West properties. Well water distribution piping from both well fields feeds water to Pump Station No. 1 at Sanrita South.

The high voltage transmission line is within a right-of-way (ROW) on State land and the fresh water distribution lines (includes well water distribution) are also with in the State land ROW or are within a ROW in the Town of Sahuarita (TOS). Costs associated with the removal of facilities and reclamation of disturbances within these ROWs are included in this MLRP.





# Existing and Proposed Final Topography § R27-971, b.6

Rosemont owns property located in the northern portion of the Santa Rita Mountains in the Basin and Range physiologic province of the southwestern United States (Figure 1). The province is characterized by high mountain ranges adjacent to alluvial filled basins. The Basin and Range province has been further divided into the Mexican Highlands and Sonoran Desert subprovinces. The Santa Rita Mountains form the boundary between the Mexican Highlands of southeastern Arizona and the Sonoran Desert sub-province to the west.

Rosemont's property occupies relatively flat to mountainous topography in the northeastern and northwestern flanks of the Santa Rita Mountains. The Santa Rita Mountains separate the Cienega Basin to the east from the Santa Cruz Basin to the west. General property elevations range from about 3,800 feet amsl to over 6,300 feet amsl. The facility elevations associated with the Copper World Project range from about 3,800 feet amsl to about 4,950 feet amsl.

The Project will, where possible, place materials in their final configuration throughout the life of the Project. As outer facility slopes are constructed during the life of mine, the slopes will be constructed at final reclamation angles and covered in non-erosive waste rock so that regrading of these slopes will not be required at Project closure. Existing topography is shown on Figure 4. Proposed final topography is shown on Figure 5. Slope details are provided in Section 9.0

#### **Vegetation**

The Copper World Project area covers three main vegetation communities. This includes the Desert (Scrub) Grasslands Community, the Desert and Semi-Desert Grasslands Community, and the Oak, Juniper, Pinyon Community. Additionally, the utilities are mainly within the Mixed Palo Verde-Cacti Community along the utility corridor.

Existing vegetation along most of the utility corridor tends to be sparse, with species of cholla (*Cylindropuntia spp.*), prickly pear (*Opuntia spp.*), and other cacti being common at lower elevations. Saguaro (*Carnegiea gigantea*) are present but not common. Invasive (introduced or non-native) plants occur in varying densityalong the utility corridor and include Lehmann lovegrass (*Eragrostis lehmanniana*), Buffelgrass (*Pennisetum ciliare*) and snakeweed (*Gutierrezia spp.*).

As the elevation increases in the Project area, vegetation density also increases and transitions into semi-desert grassland that supports abundant catclaw acacia and mimosa (*Acacia greggii* and *Mimosa aculeaticarpa*), ocotillo (*Fouquieria splendens*), and yucca (*Yucca spp.*). Tree species are mostly limited to littleleaf palo verde (*Parkinsonia microphyllum*) and low-stature velvet mesquite (*Prosopis velutina*), both of which are more abundant along the xeric desert washes. The mesquite trees do not get very large because they are only supported by occasional rainfall.

The grassland communities gradually transition into the encinal oak community near the crest of the Santa Rita Mountains east of the Copper World pit area. Multiple species of oak (e.g., *Quercus emoryi*), juniper (*Juniperus spp.*) and other woody shrubs typical of the encinal oak



community (e.g., *Vauquelinia californica*) can be found in these higher elevation areas, with denser concentrations occurring along drainages and on northern exposures.



# Narrative Description of Proposed Roads § R27-971, B.7

An access road will be located to the west of the flotation plant connecting to Santa Rita Road to the Project area. This access road is considered a primary access to the plant site. The main access road will consist of two 14-foot-wide travel lanes.

A utility maintenance road will be built along the utility corridor in the State land ROW and will be used to access the waterline and powerline as needed. This road can be accessed from Santa Rita Road.

In plant roads will run along the north side of the flotation plant area to the MIA area. There will also be a delivery route on the south side of the flotation plant that runs to the MIA area.

Mine haul roads will be constructed around the north, west and east edges of the planned waste rock storage area. Temporary haul roads will be constructed internal to the ultimate pit limits as necessary to provide access to working faces in the open pit. Haul roads will also access the primary crusher facility and TSF-1.

Haul roads will generally be 114-feet wide, inclusive of safety berms, and will support the traffic of 250- to 360-ton off-highway mine haulage trucks. In-plant roads will generally measure 24-feet wide.





# Acreage Affected by Each Type of Surface Disturbance with Map § R27-971, B.8

The land position of the Project is sufficient to allow mining of the open pits, processing of ore, storage of tailings, storage of waste rock, and operation of milling and flotation equipment. The Project encompasses the approximate area presented in Table 2.

Table 2 depicts the acreages that will be disturbed at the mine site. A total of 1,292 acres of land will be disturbed. There will be approximately 169 acres of unreclaimed portions of the open pits leaving a total of 1,123 acres to be reclaimed.

**Table 2 Disturbance Acreages** 

Affected Area	Disturbed Acres
Open Pits	169
Waste Rock Storage Area	149
Tailings Storage Facilities	756
Access and Haul Roads and Utility Corridors	87
Crushing, Processing and Support Facilities	64
Yards	34
Stormwater Controls	33
Total Disturbance	1,292

A portion of the Copper World Project area (TSF-2 and TSF-3) contains an area where the federally listed endangered Pima pineapple cactus has been identified. These areas will either be avoided or transplanting of the cactus will occur on other portions of Rosemont's private land. The Sonoran desert tortoise may also be encountered with in these same areas and is a candidate for listing as threatened or endangered. Pre-disturbance surveys will be conducted and tortoises relocated per approved protocols. With the exception of the TSF-2 and TSF-3, the remainder of the Project lies within jaguar critical habitat. No jaguars have been detected in the Santa Rita Mountains since 2015.

Additionally, historic mine openings located within facility footprints would be surveyed for bat species prior to land disturbance and bat exclusion activities would be implemented at appropriate openings to minimize impacts to bats. Both the translocation of plants and the exclusion of bats from historic mine openings would follow established protocols.

No fish habitats will be affected.





# Proposed Reclamation Measures to Achieve Post Mining Land Use § R27-971, B.9

# 9.1 Measures that will be taken to Restrict Public Access to the Project § R27-971, B.9a

In order for the Rosemont operations to run safely and efficiently, it is important that the site be secure. Theft, vandalism, protestors and illegal activity could potentially have a negative effect on worker safety, the environment, and on operating efficiency. Therefore, Rosemont will be responsible for controlling access to the site with fencing, security patrols, and by limiting locations for officially entering and exiting the property.

A fence will be built to encompass all of the primary mining and processing operations and facilities, including portions of the utility corridor. Fencing will provide a zone restricted from public access and will also provide locations for environmental compliance monitoring. Signage on the fence will state that entrance into the Rosemont Copper World Project area is prohibited. A gatehouse will be located at the entrance to the plant site where the primary access road intersects the fence.

Fencing for post-closure safety will be coordinated with applicable agencies including the Mine Safety and Health Administration (MSHA) and the Arizona State Mine Inspector (ASMI). It will be the responsibility of Rosemont to install and maintain any of these safety measures. The fence(s) may be removed at some time in the post-closure period after considering grazing and safety needs. It is assumed that post-closure reclamation monitoring and maintenance will occur for a period of five years.

In addition to protecting the site from potential vandalism or theft, it is also important to protect the public from interfacing with mine operations and to prevent potential injury. Hazards of a typical mining operation include, but are not limited to, the following: traumatic injury or death from large equipment, entanglement in machinery, driving over steep embankments, slipping or falling on uneven ground or slippery surfaces, encountering high-voltage electricity, blasting with potential for flyrock, exposure to chemicals or reagents while not wearing proper personal protective equipment, and exposure to loud noises while not wearing hearing protection. Employees working at the site are required to receive specific training in accordance with MSHA covers various aspects of site safety, whereas recreationists will likely have no training and may not recognize the hazards. Therefore, it is imperative to control access and to enforce trespassing rules. The same fencing, patrols and signage discussed above will serve to warn recreationists and others in the area of potential dangers. In addition, employees will be trained to be aware of trespassers in the course of their normal duties and report any suspicious activity.

The facilities will be designed to minimize the need for visitors or vendors to drive or walk into hazardous areas. Supply route drivers will receive site orientation training and will be familiarized with their specific loading/unloading locations and procedures.



# 9.2 Measures that will be taken to Address Erosion Control and Stability § R27-971, B.9b

During operations, erosion control will be addressed by waste rock stabilization of slopes and operational control of stormwater. Post-mining reclamation will include a coarse waste rock cover, and vegetated soil cover in addition to stormwater controls. Geotechnical design will be ongoing during the mine planning process to confirm waste rock and tailings outer slopes and pit slopes are stable.

Foundation conditions underneath waste rock outer slopes will initially be inspected for the presence of unsuitable materials. These materials will be removed and placed to the interior of the waste rock storage area. The same approach will be applied to the tailings storage facilities. Facilities are designed to be at or above recommended safety factors as provided in the Arizona Mining BADCT Guidance Manual (ADEQ 2004).

Waste rock will generally be placed to achieve an approximate overall slope of 2.2:1. The overall outer slopes of the tailings storage facilities will be about 2.6:1V. Bench widths and heights will vary to achieve the overall slope configurations. Inner bench slopes will be 1.5:1. Final slope configurations will be achieved as part of operations.

#### **Operational Stormwater Controls**

During the operational phase, the open pits and plant areas will be designed as a closed system with all precipitation and local runoff collected. Stormwater collected within the pits will be routed to evaporation areas within the pit or routed/pumped to process water storage areas. Other stormwater that contacts other process areas or materials will also be used in the process. As practicable, non-contact stormwater will be routed offsite through sediment control structures.

The surface of the tailings areas will be sloped so that precipitation that falls on top of the active area will remain on top and be pumped to the process water circuit. This will also apply to runoff from the tailings slopes prior to placement of a waste rock cover. Temporary stormwater ditches will initially be constructed upstream of the tailings facility to divert non-contact stormwater offsite and away from the facility.

During the initial years, surface water runoff generated in the waste rock storage area will be managed by using internal stormwater controls and/or by allowing stormwater runoff to infiltrate back into the waste rock pile. Runoff from waste rock outer slopes will be contained within smaller basins or stormwater ponds located along the toe.

Diversion channels and other appropriate best management practices will be implemented as needed to direct stormwater and control erosion. Sediment control structures will be installed to reduce the total suspended solids load to downgradient drainages. Sediment structures (ponds) will be located and sized based on topography, available space, and the anticipated sediment generating capacity of the contributing basin. These unlined ponds will typically be sized to be no more than 6 feet deep. These structures constructed out of inert rockfill. The ponds will be temporary structures that will collect stormwater flows, settle velocities so that the heavier wash load falls out, and allow water to slowly seep through the rockfill.

Rosemont plans to contain any water from the tailings area on-site along with other stormwater that would be considered process water. Stormwater runoff from the waste rock storage area,

**CPW** Smith outer slopes of the covered tailings facilities, and office/administrative building areas may be discharged under an applicable stormwater permit. However, as general practice, Rosemont will contain most of the stormwater that falls directly within the Project footprint. This stormwater may be recycled into the process circuit or allowed to evaporate/infiltrate or be used for dust control.

The top surface of the tailings will be exposed to precipitation only during operations. All tailings will be covered with waste rock (or local borrow) and vegetated at closure.

Stormwater from above the open pits will be diverted around the pits as practicable. As noted, stormwater that falls within the pit and associated disturbed areas during operations will be contained on-site and used for mining and processing purposes or evaporated. Post-closure, any stormwater that enters the pit will be retained.

As practicable, stormwater runoff from the waste rock storage area will be diverted offsite through sediment control structures.

#### **Pre- and Post-Mining Temporary Sediment and Erosion Controls**

Temporary erosion and sediment controls will be installed to reduce sediment loading in stormwater during the pre-mining construction of the ancillary facilities and pre-stripping of the waste rock and tailings storage areas, etc. Stormwater controls would also follow the Stormwater Pollution Prevention Plan (SWPPP) developed for the Project. Temporary best management practices will be also installed to control erosion and sediment during demolition and reclamation activities.

Reclamation shall result in stable conditions with regard to erosion and seismic activity. Topographic contour grading will be conducted as needed to establish suitable reclaimed facilities. Permanent piles of mining materials shall not restrict surface drainages or contribute to excessive erosion. Drainage channels will be established as needed.

At the end of mine life, all operational facilities not required for closure applications will be removed, the areas regraded, capped with growth media (as needed), and seeded. Some sediment ponds may be left in place or new basins established to control the sediment load to downgradient drainages.

#### Measures taken to Preserve and Conserve Soil

Suitable cover soil materials may be salvaged used as cover during reclamation. Waste rock stored at the waste rock facility will also be used during reclamation for non-erosive rock cover and as vegetative cover. At reclamation, soil and waste rock areas suitable for vegetation will be seeded.

# 9.3 Measures to Address Revegetation, Conservation, and the Care and Monitoring of Revegetated Areas § R27-971, B.9c

The goal of the Project revegetation program is to meet state of Arizona requirements by establishing native, diverse and productive plant communities capable of stabilizing the soil against wind and water erosion and supporting the post-mining land uses of ranching and



wildlife habitat. Much of the reclaimed landscape will be suitable for grazing once vegetation is established.

Based on the Arizona Department of Transportation Final Stabilization Standards, Rosemont is proposing that the vegetation cover required for final stabilization to be complete is 70% of the existing native vegetation coverage that is representative of the local area. This would be applicable to the top areas of reclaimed waste rock and tailings facilities and the reclaimed plant site area. Slopes are generally planned with a coarse waste rock cover to resist erosion.

# 9.4 Measures That Will Be Taken to Encourage Fish and Wildlife Post-Mining Land Use and Their Compatibility with Fish and Wildlife Habitat on Adjacent Lands § R27-971, B.9d

Wildlife habitat is a defined post-mining land use. Rosemont is planning reclamation of the facility to establish wildlife habitat. Species selected for use in the seed mix(s) must be native and common to the Project area and support wildlife habitat and commercially available. Additionally, areas disturbed by the Project will generally be fenced to exclude the public. As noted, ranching will also be continued on the land post-mining. Therefore, selected species will also be chosen that are supportive of grazing.



# A Proposed Schedule for Reclamation Measures § R27-971, B.10

Figures 4 and 5 show existing and proposed topography for the site facilities. The Project includes a total of 1,292 acres of disturbed area. Mining is currently expected to be completed in less than 10 years. Limited site preparation work in anticipated beginning in September 2021.

Post-mining reclamation will commence immediately upon mining cessation. Reclamation activities are anticipated to be completed within a 12-month period followed by 5 years of site monitoring and maintenance. A total of 1,123 acres of disturbance will be reclaimed (169 acres of pit area will not be reclaimed).





# Estimated Costs to Perform Each of the Proposed Reclamation Measures § R27-971, B.11

Reclamation cost estimates were performed using the Standard Reclamation Cost Estimator (SRCE) spreadsheets (SRCE 2021). Descriptions of cost estimating assumptions, reclamation activities and quantities, and resulting costs are provided in Appendix A. A cost summary is provided in Table 3 below.

**Table 3 Reclamation Cost Summary** 

Cost Element	Labor	Sections	Material	Total
Earthwork/Recontouring	\$2,203,000	\$4,623,000	\$352,000	\$7,178,000
Revegetation/Stabilization	\$135,000	\$48,000	\$380,000	\$563,000
Waste Disposal	-	-	-	\$50,000
Structure, Equipment, and Facility Removal	\$3,730,000	\$1,135,000	\$86,000	\$4,951,000
Monitoring	\$139,000	\$22,000	\$44,000	\$205,000
Construction Management and Support	\$832,000	\$750,000	\$20,000	\$1,602,000
Indirect Costs				\$5,151,000
Total				\$19,700,000

The average reclamation cost per acre for the total reclaimed area of 1,123 acres is just under \$5,900. Total bonding cost for the same acreage is just over \$17,500 per acre.





# References

ADEQ, 2004. Arizona Mining BADCT Guidance Manual. Publication # TB 04-01.





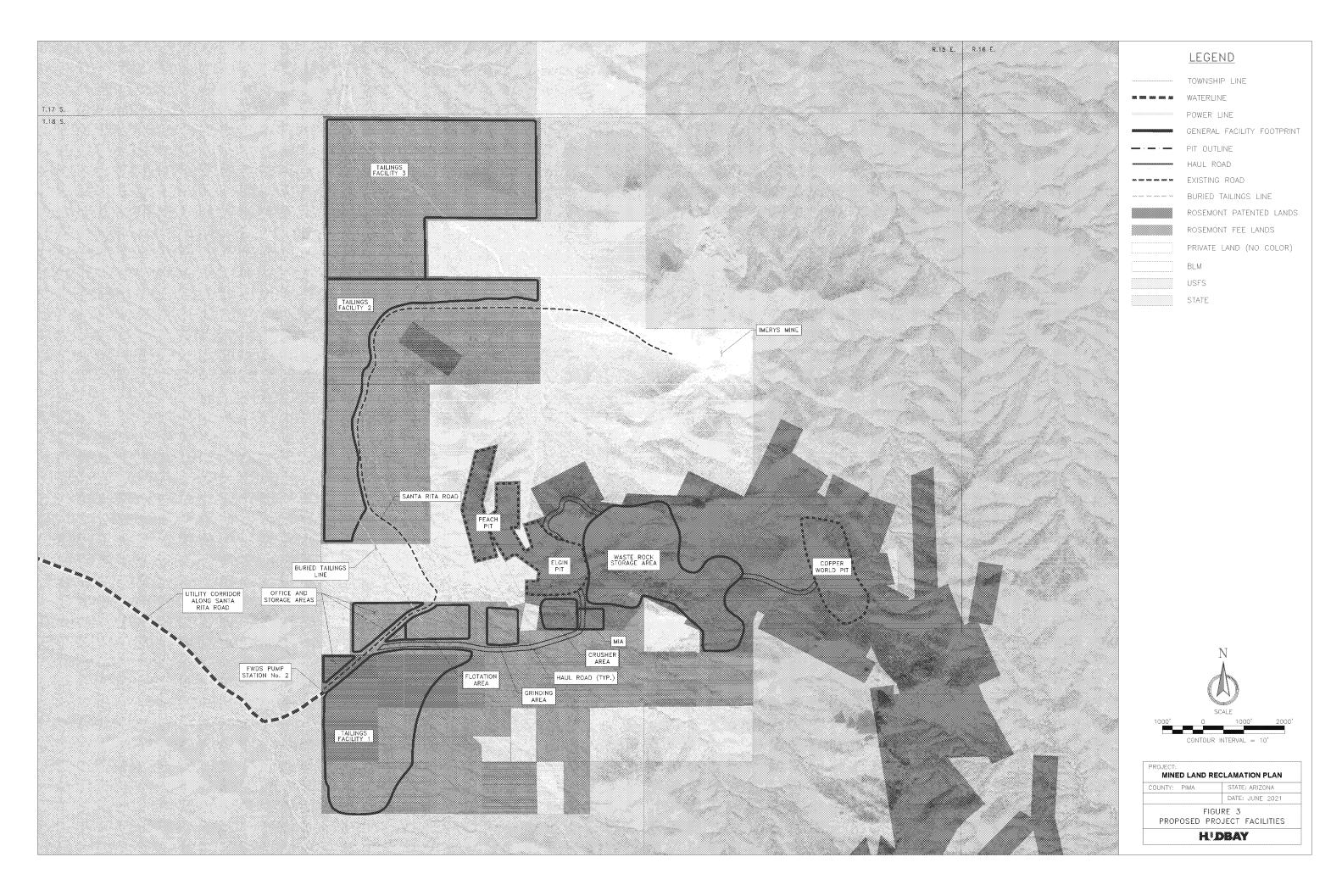
# Figures

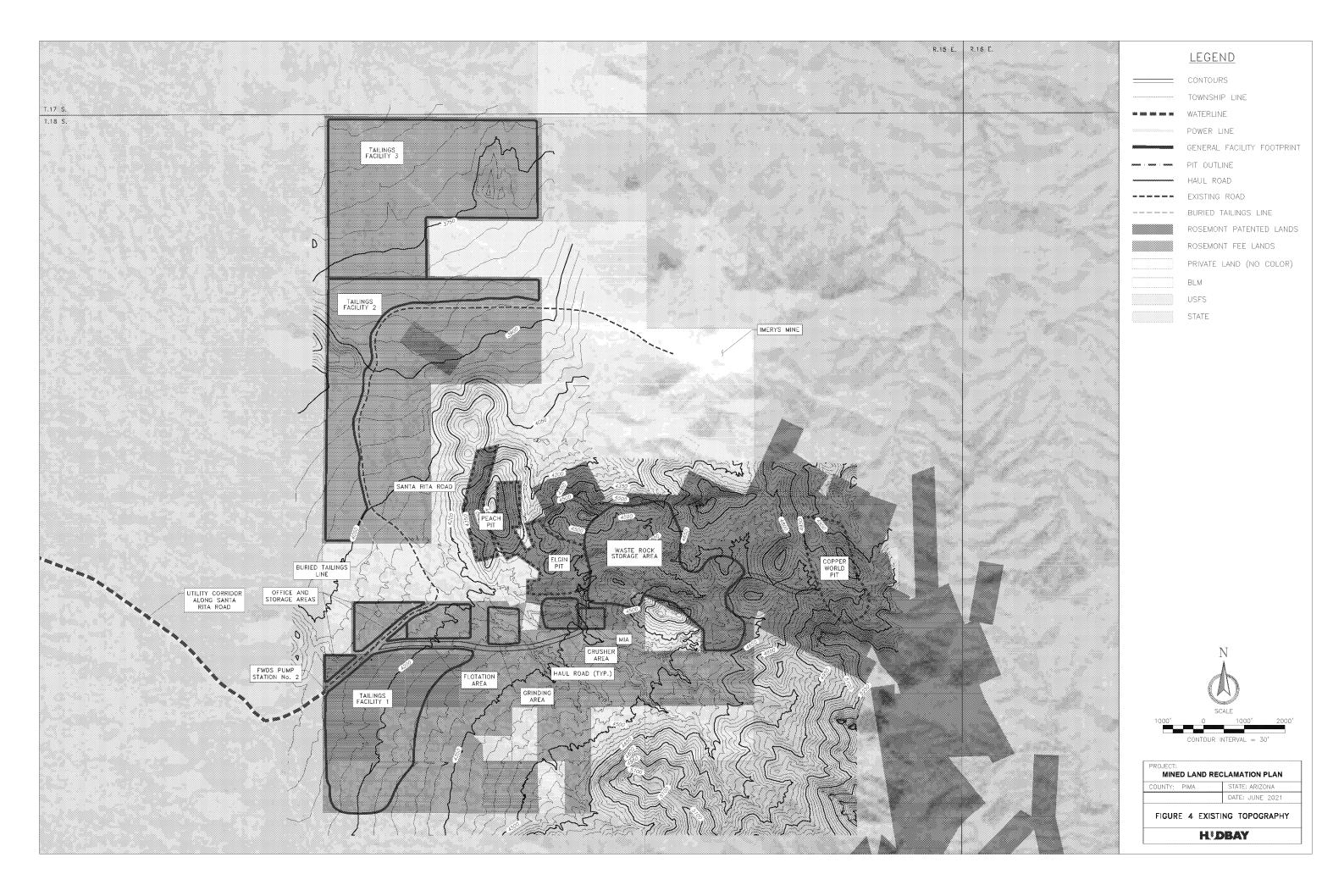


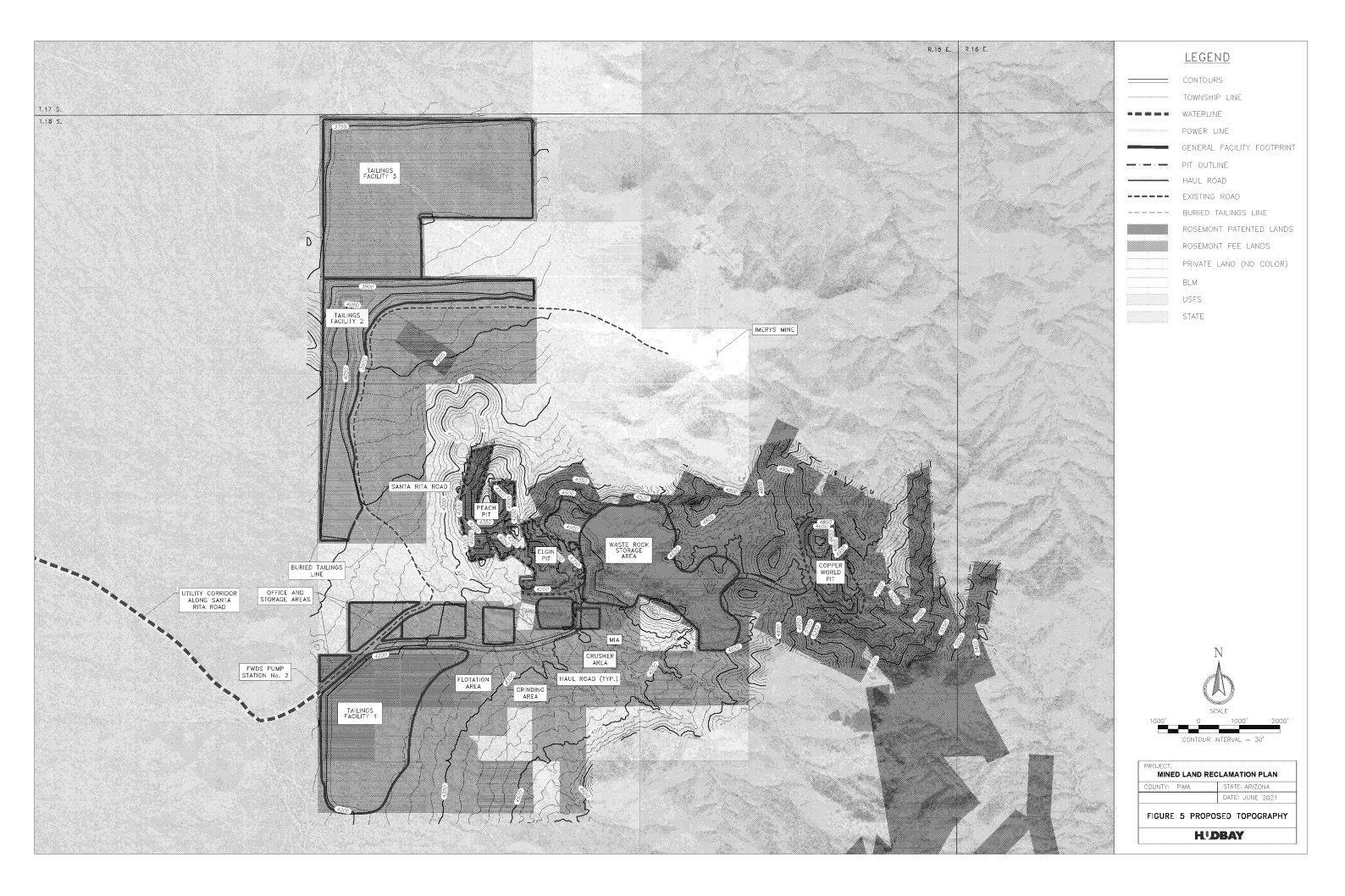


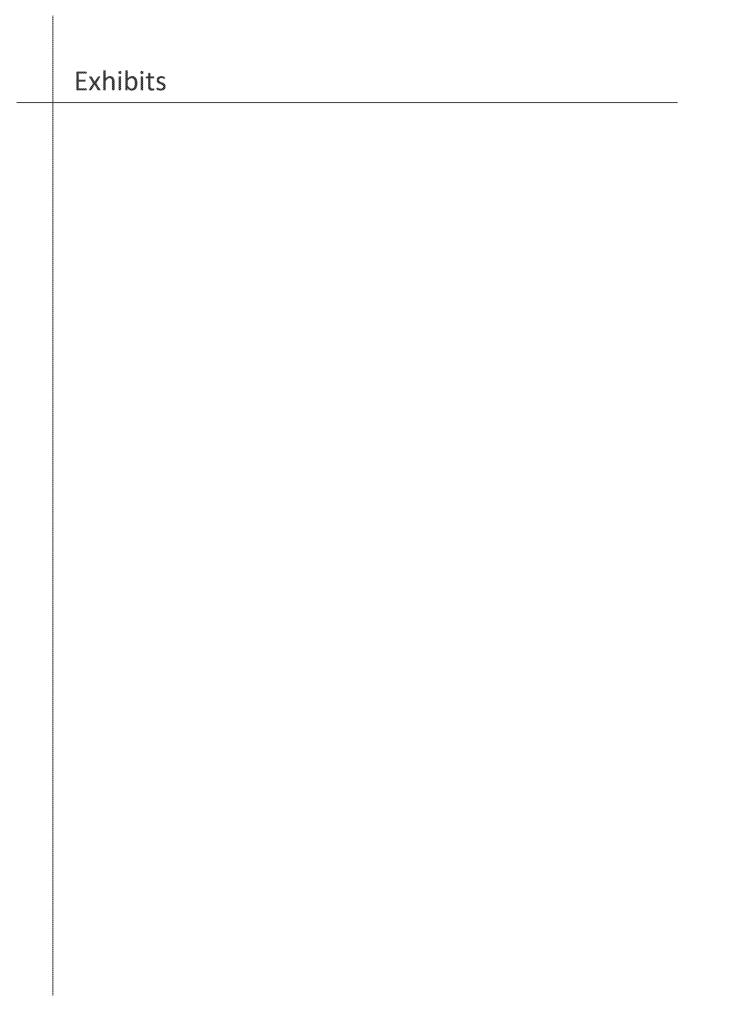






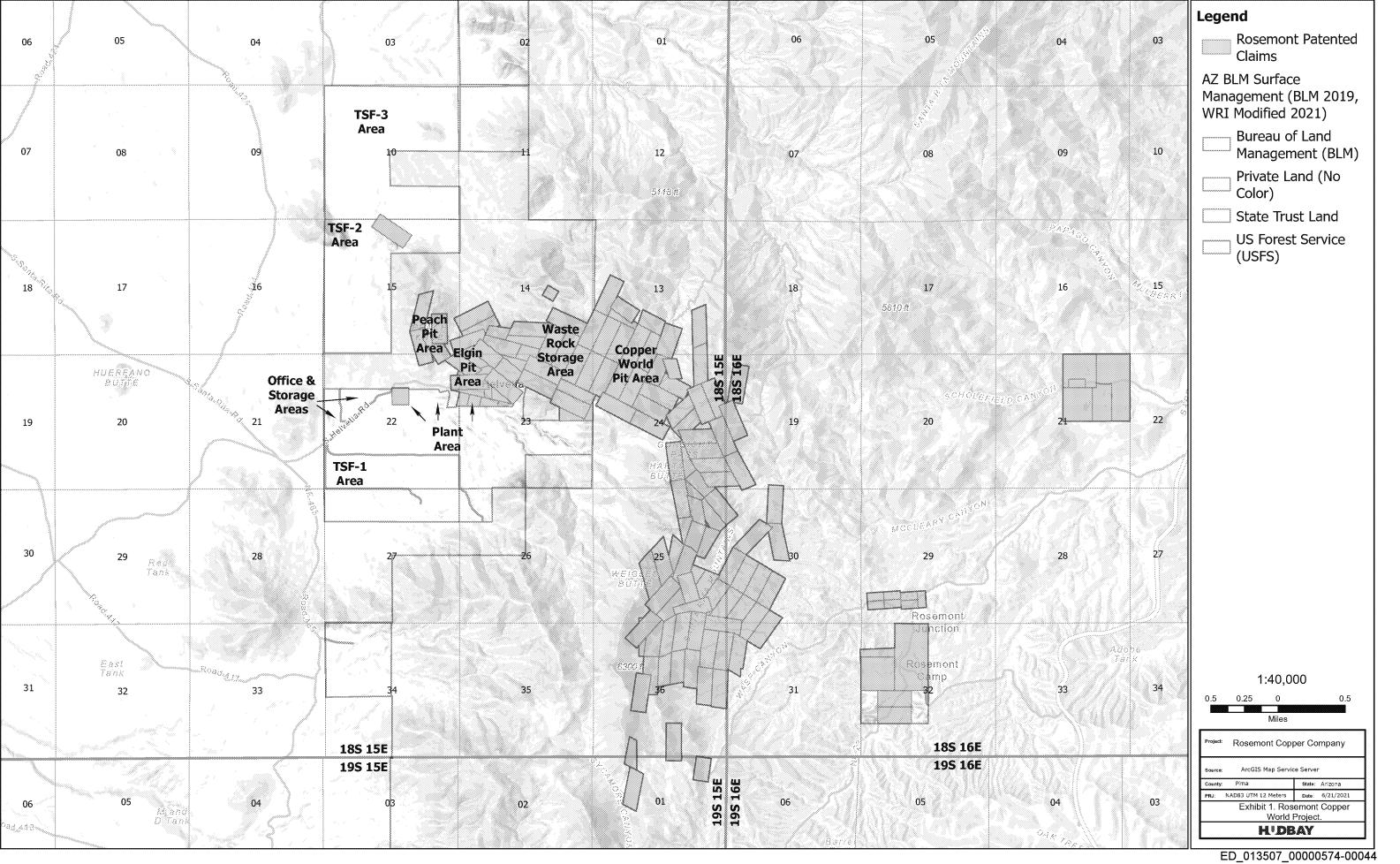












# Appendix A

Reclamation Cost Estimates





### Memorandum

# Rosemont Copper World Mined Land Reclamation Plan June 2021 Reclamation Cost Basis

This document outlines the reclamation process and assumptions behind developing reclamation costs for the Rosemont Copper World Project (Project) in Pima County, Arizona as part of the Mined Land Reclamation Plan submitted to the Arizona State Mine Inspector (ASMI). Reclamation costs were estimated using the Standard Reclamation Cost Estimator (SRCE) software from the Nevada Division of Environmental (https://ndep.nv.gov/land/mining/reclamation/reclamation-cost-estimator) developed as a collaborative effort between the Nevada Department of Environmental Protection, Bureau of Mining Regulation and Reclamation, U.S. Department of Interior, Bureau of Land Management, and Nevada Mining Association. The SRCE utilizes standardized reclamation calculation methods, productivity data and procedures, and user-inputted data to create a cost-estimate for mine closure and reclamation activities.

The information below summarizes each applicable reclamation component for the Project at closure and the SRCE model assumptions used to calculate the reclamation costs. It was assumed that large or medium sized equipment would be used for all activities. It was also assumed that waste rock would be used for reclamation as non-erosive rock cover or as seeded cover material, with a few exceptions noted below.

#### Cost-Data

Cost-Data was imported from the SRCE database as a User-Generated Data file using the Southern Nevada cost basis with minor adjustments made for Pima County, AZ. The Southern Nevada database costs are related to the Las Vegas, Nevada area (Clark County, Nevada) which are considered similar to costs in the Tucson, Arizona area (Pima County, Arizona) where the Rosemont Copper World Project is located. Labor rates and indirect costs are based on Davis-Bacon rate schedules for equipment operators and laborers. Project management and technical labor are based on RS Means 2020 labor rates. Materials costs, equipment operating rates, fuel usage, and equipment maintenance costs are based on regional vendor quotes, RS Means 2020, and CAT Handbook. Details for pricing are provided within the cost summary sheets attached.

# **Waste Rock Dumps**

One waste rock facility (waste rock storage area) is proposed for the Project. The waste rock storage area (WRSA) would be configured with a sloped western side and relatively flat top. The final reclaimed western slope would encompass approximately 28 acres and the flat top would cover approximately 121 acres. Total reclaimed footprint is estimated at 149 acres. It was assumed that the sloped western side would be built during mining at an approximate overall slope of 2.2:1 with non-erosive rock cover and would require no regrading or seeding during final reclamation. The top of the WRSA would require minor regrading to provide proper drainage post-closure. It is assumed that a volume equal to 1 foot over 1/3 of the area of the WRSA would be graded. The flat top area would be scarified and seeded after mine closure.

### **Heap Leach**

The Project does not currently include any heap leach facilities.



# **Tailings**

The Project would include three Tailings Storage Facilities (TSF) of varying sizes. All three would have sloped embankments, final embankment height of approximately 200 feet. TSF-1 reclaimed embankment is estimated to cover approximately 18 acres and the flat top is estimated at 164 acres. TSF-2 reclaimed embankment is estimated to cover approximately 71 acres and the flat top is estimated at 120 acres. TSF-3 reclaimed embankment is estimated to cover approximately 40 acres and the flat top is estimated at 344 acres. For the SRCE it was assumed that the sloped west sides of all three tailing facilities would be built at an overall approximate slope of 2.6:1 and would be reclaimed with approximately 2 feet of non-erosive rock cover and would require no regrading or seeding during final reclamation. The flat tops of all three tailings facilities will be covered with a 1-foot layer of growth media, scarified, and seeded during final reclamation. Costs assume suitable growth media is hauled from the WRSA to the three tailings sites. Cover may alternatively be taken from materials salvaged from facility footprints and locally stockpiled. The higher cost of these two options was assumed herein.

It was assumed that the flat tops of the tailing's facilities would require minor regrading to provide proper drainage post-closure. It is assumed that a volume equal to 1 foot over 1/3 of the area of each tailings facility would be graded.

### Roads

Within the Rosemont Copper World Project area there are haul roads and access roads that will require reclamation work. The reclamation process was slightly different for each type of road and is further explained below.

#### Haul Roads

There are approximately 2 miles of on-site haul roads with an average width of 114-feet. These will be reclaimed to a width of 20-feet to allow for future monitoring and maintenance access. For reclamation, approximately 94-feet of the haul road width will be regraded and seeded. The cover soil will be salvaged from the cut/fill material placed adjacent to the haul roads during construction. It is assumed that the haul roads each have a 6-foot safety berm on one side of the road. Culverts are also dispersed throughout the haul roads, the reclamation process for those is explained in the Misc. Costs section.

## **Utility Corridor Access Road**

The utility corridor contains an approximate 12.5-mile access road with an average width of 30-feet. It was assumed that there were no safety berms on this road, and that the entire width would be reclaimed at mine closure. The utility corridor access road will be regraded and seeded for reclamation. It was assumed that cover soil would be salvaged from available regraded road materials.

Within the utility corridor there are 12.5 miles of water pipeline for the fresh water delivery to the mine. For convenience, the reclamation of the pipeline corridor was included in the SRCE road costs module. Pipeline removal is included under the Misc. Costs. After pipeline removal the corridor area would re-graded and seeded. It was assumed that cover soil would be material salvaged during the installation and removal of the pipeline.

### Pits

At closure, pit access will be restricted by fencing (see Misc. Costs). Therefore, no safety berms are included.

CDM Smith

# **Quarries and Borrow Pits**

The Project does not currently include any quarries or borrow pits.

# **Underground Openings**

The Project does not currently include any underground openings.

#### **Haul Material**

The Project does not currently include any additional haul material.

# **Foundations & Buildings**

The total square footage of buildings was supplied by Rosemont at 165,864 square feet. Structures include two Flotation Buildings, a Crusher Building, a Grinder Building, a Molybdenum Plant, a Moly Filtration and Concrete Loadout Building, a Copper/Moly Load Out Building, and various mine-support facilities. The dimensions in the SRCE are estimates and include a 30-foot Eve Height, 12-inch slab thickness, 12-inch foundation wall thickness and 6-foot foundation wall height.

For reclamation, the concrete foundations will be broken and buried in place, with 4-feet of cover placed on top. Cover, including growth media, will be obtained from materials immediately adjacent to the area. The building areas will then be graded using soil from original construction grading and all disturbed areas will be seeded.

# Other Demo & Equip Removal

Demolition of two pump stations, which is part of the fresh water delivery system, was included in the calculations. Demolition cost was estimated at \$100,000 for each pump station.

# **Sediment & Drainage Control**

For stormwater control and sediment control at closure, an estimate based on similarly sized projects was used for the total length of diversion ditches and amount of sediment ponds.

### **Diversion Ditches**

For stormwater diversion, the site contains an estimated 56,000-feet of diversion ditches. Of this total, it was assumed that 11,200-feet would require riprap armoring. Calculations included riprap on the bottom and sides of these ditches. A depth of 3-feet, bottom width of 6-feet, and side slope of 2:1 was used for calculations. For reclamation, it was assumed that these ditches would be seeded within the channel.

### Sediment Ponds

It was assumed that there would be up to six sediment ponds placed throughout the Project. Each pond is estimated to be 100-feet by 300-feet and have a depth of 6-feet. The calculations used assumed that all excavated material would be used to build a berm around the sediment ponds. It was also assumed that no liners would be installed in the ponds. For reclamation, these areas will be reclaimed and seeded.

# **Process Ponds, Landfills, Yards**

No process ponds, or landfills, are included for closure reclamation. Process ponds could be included in the Project but reclamation of these will be covered under the Arizona Aquifer Protection Permit Program. Yards associated with office and storage areas total 34 acres and would be reclaimed by regrading and covering with 12-inches of growth that is assumed to be located adjacent to the yards. The area would be scarified and seeded.



# **Waste Disposal**

Most solid waste during closure will be removed from the site as part of the building demolition costs. Additional (miscellaneous) solid waste removal is estimated to be 1,000 cubic yards. It is assumed that solid waste dumpsters would be rented over the estimated 12-month reclamation period.

#### Well Abandonment

Wells included in the cost-estimate include 8 dewatering wells. Dewatering wells are assumed to be 12-inches in diameter and 500 feet in depth. The reclamation cost-estimate assumes that the holes would be grouted and capped at surface with neat cement. Monitoring wells were assumed to remain as part of the ADEQ Aquifer Protection Permit Program. Production water wells were assumed to be capped but not abandoned.

### Misc. Costs

Miscellaneous costs included fence installation around the pits to restrict access, culvert and buried pipe removal, and power line and substation removal.

### Fence Installation

Fencing to surround the Peach/Elgin Pit area measures an estimated 21,445-feet in total length and the Copper World Pit fence is estimated at 8,854-feet in total length. Both fences were assumed to be constructed of 5-stranded barbed wire. Fences will be installed in lieu of berms around the pits. These fences will be left in place for safety.

# Culvert and Buried Pipe Removal/Abandonment

The removal of the 12.5-mile-long freshwater delivery system pipeline within the utility corridor is included in this portion of the estimate. The pipeline length is estimated at 66,000-feet and is assumed to be 24-inches in diameter. This portion of the SRCE is only relevant for the removal of this pipeline. The reclamation costs for this area are calculated in the previous section for Roads.

Removal of the culverts underneath the Haul Roads and Access Roads were also included in this section. It was assumed there were 10 culverts per mile of haul road, each 140-feet in length and 24-inches in diameter. In order to preserve a 20-foot access road along these haul roads for future maintenance activities, it was assumed that a 40-foot length segment would be left in place at each culvert location. The removal of culverts associated with the former plant site roads were assumed to consist of 10 culverts, each 60-feet in length and 24-inches in diameter. Reclamation of these plant site roads was included in the general area grading.

It was assumed that no culverts were installed along the 12.5-mile length of the utility access road.

The approximate 1,700-foot-long buried tailings slurry pipeline between the mill and TSF-2 is assumed to be 24-inches in diameter and will be closed in place by filling with cement grout.

### Power Line and Switchyard/Substation Removal

For reclamation of the site, 9.1-miles of powerline will be removed as well as one switchyard and one substation. It was assumed the powerline was single pole construction. Reclamation of disturbed areas associated with removal of the powerline were assumed coincident and part of the water line removal cost.

CDM Smith

# **Reclamation Maintenance and Monitoring**

For reclamation maintenance, it was assumed that 10% of the total revegetation area would need to be reseeded per year. It was also assumed that 10% of the graded and reclaimed area would need erosion maintenance per year. Maintenance was assumed to occur for 5 years.

For reclamation monitoring, it is assumed that field visits to evaluate site conditions would be required 4 times per year for 5 years. One Field Geologist/Engineer and one Range Scientist are assumed to visit the site for 2, 8-hour days, each quarter during the year. Costs also include an additional 4 hours of work quarterly for the Field Geologist/Engineer to prepare field reports, and 4 hours of work quarterly for the Range Scientist to prepare reports. Travel costs were estimated using 4 hours one-way for each trip to the site and 1 truck per trip.

No soil or water sampling is included in the cost estimate. It is assumed that sampling of this nature would occur under the Aquifer Protection Permit Program.

# **Construction Management and Road Maintenance**

It was assumed that reclamation could be completed in 12 months of full-time work. Construction management costs include two supervisors working full time (8 hours per day) for the duration of the reclamation period (12 months). Costs include transportation (pickup truck), one temporary on-site office rental, and a temporary toilet.

For construction management during the 5-year Monitoring and Maintenance period, one parttime (12 hours per quarter) supervisor was assumed. A temporary toilet is assumed to be needed at the site for the duration of the 5-year monitoring period.

During active reclamation, costs include using one large water truck and one large grader for road maintenance and dust control for the duration of the 12-month period. For Monitoring and Maintenance, it was assumed that road maintenance by one medium sized grader would be required yearly (12 hours per year) for 5 years and no water truck.

Water Fees were assumed to be \$19,879 assuming on-site water would be available for the duration of the reclamation work. This cost is based on an ADWR removal fee of \$3.00 per acrefoot of pumping out of the AMA, an estimated 81 acre-feet of usage during the reclamation period, and about \$243.00 per acre-foot for pumping costs.



Enter Data Below in Green and Blue Spaces

# STANDARDIZED RECLAMATION COST ESTIMATOR

# Version 1.4.1 Build 017b (Revised 16 May 2019)

Approved for use in Nevada, August 1, 2012

	C K
COST DATA FILE INFORMATIO	N
File Name:	ROSEMONT Copper World MLRP_06032021_SRCE_Version_1_4_1_017b_NV_2020.xlsm
Cost Data File:	SRCE_Cost_data-USR_1_12_Rosemont Copper World_06032021.xlsm
Cost Data Date:	June 3, 2021
Cost Data Basis:	User Data Data Cost Units: Imperial
Author/Source:	CDM Smith
PROJECT INFORMATION	
Property/Mine Name:	Rosemont Copper World Project Property Code:
Project Name:	Rosemont Copper World Mined Land Reclamation Plan
Date of Submittal:	June 7, 2021 Average Altitude: 4300 ft.
Select One:	☐ Notice or Sm Exploration Plan ☐ Lg Exploration Plan ☐ Mine Operation
Select One:	☐ Private Land ☐ Public or Public/Private
Cost Estimate Type:	Surety
Cost Basis Category:	Southern Nevada - Adjusted for Arizona
	Clark, Esmeralda, Lincoln and Nye counties - adjusted for Pima County, AZ
Cost Basis Description:	

Copyright® 2004-2011 SRCE Software. All Rights Reserved

### ie: Rosemont Copper World Mined Land Reclamation Plan Project Date: June 7, 2021 er World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm Reclamation Plan

**Table of Contents** Property Information Cost Summary Exploration Exploration Roads & Pads Waste Rock Dumps Heap Leach Pads Tailings Roads Pits Quarries & Borrow Pits Underground Openings Material Hauling Foundations and Buildings Other Demo & Equipment Removal Sediment & Drainage Control Process Ponds Landfills Yards, Etc. Waste Disposal Well Abandonment Misc. Costs Monitoring Construction Management

Labor Costs
Equipment Costs
Material Costs
Misc. Unit Costs
Fleets (Crews)
Productivity
User Tools
Seed Mixture
Light Short 1

Solution Management Other User Reclamation Quantities

User Tools	
Seed Mixture	Description
User Sheet 1	
User Sheet 2	
User Sheet 3	
User Sheet 4	
User Sheet 5	
User Sheet 6	
User Sheet 7	
User Sheet 8	
User Sheet 9	
User Sheet 10	
User Sheet 11	
User Sheet 12	
User Sheet 13	
User Sheet 14	
User Sheet 15	
User Sheet 16	
User Sheet 17	
User Sheet 18	
User Sheet 19	
User Sheet 20	

Copyright © 2004 - 2009 SRCE Software. All Rights Reserved

# **Closure Cost Estimate**

# **Cost Summary**

# Project Name: Rosemont Copper World Mined Land Reclamation Plan Project Date: June 7, 2021

Model Version: Version 1.4.1

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm
Data Cost File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Basis: Southern Nevada - Adjusted for Arizona

A. Earthwork/Recontouring	Labor (1)	Equipment (2)	Materials	Total
Exploration	\$0	\$0	\$0	
Exploration Roads & Drill Pads	\$0	\$0	\$0	
Roads	\$4,158	\$17,171	\$0	
Well Abandonment	\$42,348	\$78,145	\$7,084	\$127,577
Pits	\$0	\$0	N/A	\$0
Quarries & Borrow Areas	\$0 \$0	\$0 \$0	\$0 \$0	
Underground Openings Process Ponds	\$0 \$0	\$0 \$0	\$0	
Heaps	\$0	\$0	\$0	
Waste Rock Dumps	\$8,560	\$35,351	\$0	
Landfills	\$0,300	\$0	\$0	
Tailings	\$1,487,405	\$4,140,052	\$0	
Foundation & Buildings Areas	\$53,816	\$127,014	\$0	
Yards, Etc.	\$28,036	\$75,259	\$0	
Drainage & Sediment Control	\$578,180	\$149,746	\$345.233	\$1,073,159
Generic Material Hauling	\$0	\$0	\$0	
Other User Costs (from Other User sheet)	\$0	\$0	\$0	
Other**	ΨΟ			\$0
Subtotal	\$2,202,503	\$4,622,738	\$352,317	
OND COM	VZ,Z0Z,000	ψ-1,022,100 <sub>1</sub>	, , , , , , , , , , , , , , , , , , ,	<b>VI,III,000</b>
Mob/Demob if included in Other User sheet	\$0	\$0	\$0	\$0
Mob/Demob	•			\$0
Subtotal "A"	\$2,202,503	\$4,622,738	\$352,317	\$7,177,558
Sublotal A	\$2,202,503	\$4,022,730	\$352,317	\$1,111,000
P. Payagetation/Stabilization	Labor (1)	Equipment (2)	Materials	Total
B. Revegetation/Stabilization				
Exploration	\$0	\$0	\$0	
Exploration Roads & Drill Pads	\$0	\$0	\$0	
Roads	\$12,231	\$4,371	\$34,360	L
Well Abandonment	4.0			N/A
Pits	\$0	\$0	\$0	
Quarries & Borrow Areas	\$0	\$0	\$0	\$0
Underground Openings			***	N/A
Process Ponds	\$0	\$0	\$0	\$0
Heaps	\$0	\$0	\$0	
Waste Rock Dumps	\$16,940	\$6,050	\$47,583	\$70,573
Landfills				
	\$0	\$0	\$0	
Tailings	\$87,920	\$31,400	\$246,961	\$366,281
Tailings Foundation & Buildings Areas	\$87,920 \$8,960	\$31,400 \$3,200	\$246,961 \$25,171	\$366,281 \$37,331
Tailings Foundation & Buildings Areas Yards, Etc.	\$87,920 \$8,960 \$4,760	\$31,400 \$3,200 \$1,700	\$246,961 \$25,171 \$13,371	\$366,281 \$37,331 \$19,831
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control	\$87,920 \$8,960 \$4,760 \$4,424	\$31,400 \$3,200 \$1,700 \$1,580	\$246,961 \$25,171 \$13,371 \$12,429	\$366,281 \$37,331 \$19,831 \$18,433
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling	\$87,920 \$8,960 \$4,760 \$4,424 \$0	\$31,400 \$3,200 \$1,700 \$1,580 \$0	\$246,961 \$25,171 \$13,371 \$12,429 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet)	\$87,920 \$8,960 \$4,760 \$4,424	\$31,400 \$3,200 \$1,700 \$1,580	\$246,961 \$25,171 \$13,371 \$12,429	\$366,281 \$37,331 \$19,831 \$18,433 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**	\$87,920 \$8,960 \$4,760 \$4,424 \$0	\$31,400 \$3,200 \$1,700 \$1,580 \$0	\$246,961 \$25,171 \$13,371 \$12,429 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet)	\$87,920 \$8,960 \$4,760 \$4,424 \$0	\$31,400 \$3,200 \$1,700 \$1,580 \$0	\$246,961 \$25,171 \$13,371 \$12,429 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other** Subtotal "B"	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$48,301	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$0 \$563,411
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other** Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes**	\$87,920 \$8,960 \$4,760 \$4,424 \$0	\$31,400 \$3,200 \$1,700 \$1,580 \$0	\$246,961 \$25,171 \$13,371 \$12,429 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$0 \$563,411
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$48,301	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$0 \$563,411
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other** Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$48,301	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$0 <b>\$563,411</b> <b>Total</b> \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other** Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill)	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$48,301	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$0 \$563,411 Total \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other** Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$48,301	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$0 <b>\$563,411</b> <b>Total</b> \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$48,301	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$563,411 <b>Total</b> \$0 \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$48,301	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$563,411 Total \$0 \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235 Labor (1)	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$0 \$48,301 Equipment (2)	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 \$379,875 Materials	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$0 \$563,411 Total \$0 \$0 \$0 \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$48,301	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$563,411 Total \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes**  Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235 Labor (1)	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$0 \$48,301 Equipment (2)	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 \$379,875 Materials	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$563,411 Total \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235 Labor <sup>(1)</sup>	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$48,301 Equipment (2)	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 <b>\$379,875</b> <b>Materials</b>	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$563,411 Total \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235 Labor (1) \$0	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$48,301 Equipment (2)	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 \$1 <b>\$379,875</b> <b>Materials</b>	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$0 \$563,411 Total \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet)	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235 Labor <sup>(1)</sup>	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$48,301 Equipment (2)	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 <b>\$379,875</b> <b>Materials</b>	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$0 \$563,411 Total \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Haulling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$135,235 Labor (1) \$0	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$0 \$48,301 Equipment (2) \$0 \$0	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 <b>\$379,875</b> <b>Materials</b>	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$563,411 Total \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet)	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235 Labor (1) \$0	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$48,301 Equipment (2)	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 \$1 <b>\$379,875</b> <b>Materials</b>	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$563,411 Total \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  Subtotal "C"	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$135,235 Labor (1) \$0 \$0	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$48,301 Equipment (2) \$0 \$0 \$0 \$0	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 <b>\$379,875</b> <b>Materials</b> N/A	\$366,281 \$37,331 \$18,833 \$0 \$0 \$563,411 Total \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other** Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc.	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$135,235 Labor (1) \$0 \$0 \$0	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$48,301 Equipment (2) \$0 \$0 \$0 \$0 \$0	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 <b>\$379,875</b> <b>Materials</b> N/A	\$366,281 \$37,331 \$19,831 \$18,433 \$0 \$0 \$0 \$563,411  Total  **Total**  **So**  **So**
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235 Labor (1) \$0 \$0 \$0 \$0 \$0	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$0 \$48,301 Equipment (2) \$0 \$0 \$0 \$0	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 \$379,875 Materials \$0 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$6,261 \$6,261 \$563,411  Total \$6,261 \$6,261 \$6,261 \$6,276,235 \$7,235
Tailings Foundation & Buildings Areas  Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235 Labor (3) \$0 \$0 \$0 \$0 \$0 \$0 \$160,000	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$0 \$48,301 Equipment (2) \$0 \$0 \$0 \$0 \$0 \$0	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 \$379,875 Materials \$0 \$0 \$0 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$6 \$6 \$5 \$563,411 Total \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$7 \$6 \$7 \$6 \$7 \$7 \$7 \$8 \$7 \$8 \$8 \$6 \$6 \$7 \$6 \$7 \$8 \$8 \$8 \$8 \$8 \$8 \$8 \$8 \$8 \$8
Tailings Foundation & Buildings Areas  Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235 Labor (1) \$0 \$0 \$0 \$0 \$1,067,999 \$160,000 \$0	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$0 \$48,301 Equipment (2) \$0 \$0 \$0 \$0 \$0 \$130,000 \$130,000 \$0	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 \$379,875 Materials \$0 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$6 \$6 \$6 \$7 \$563,411  Total \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Tailings Foundation & Buildings Areas  Yards, Etc. Drainage & Sediment Control  Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes**  Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235 Labor (1) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$0 \$48,301 Equipment (2) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 <b>\$379,875</b> <b>Materials</b> \$0 \$0 <b>Materials</b> \$0 \$0	\$366,281 \$37,337 \$118,433 \$18,433 \$6 \$6 \$5 \$5 \$5 \$5 \$5 \$6 \$6 \$6 \$6 \$6 \$6 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7
Tailings Foundation & Buildings Areas  Yards, Etc. Drainage & Sediment Control  Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235  Labor (1) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,067,999 \$160,000 \$0 \$0 \$94,836	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$0 \$48,301 Equipment (2) \$0 \$0 \$0 \$0 \$0 \$130,000 \$0 \$15,755	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 \$379,875 Materials N/A \$0 \$0 \$0 \$0 \$0 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$6 \$6 \$5 \$5 \$563,411  Total  \$6 \$6 \$6 \$6 \$6 \$6 \$7 \$6 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7
Tailings Foundation & Buildings Areas  Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235  Labor (1) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$94,836 \$992,530	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$0 \$48,301 Equipment (2) \$0 \$0 \$0 \$0 \$0 \$0 \$130,000 \$0 \$15,755 \$260,820	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 \$379,875 Materials \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$6 \$6 \$6 \$7 \$563,411  Total  \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$7 \$6 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7
Tailings Foundation & Buildings Areas  Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pipe Removal	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$0 \$135,235  Labor (1) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,067,999 \$160,000 \$0 \$94,836 \$922,530 \$0	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$0 \$48,301 Equipment (2) \$0 \$0 \$0 \$0 \$0 \$130,000 \$0 \$15,755	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 \$379,875 Materials N/A \$0 \$0 \$0 \$0 \$0 \$0	\$366,281 \$37,331 \$19,831 \$18,433 \$6 \$6 \$6 \$7 \$563,411  Total  \$0 \$6 \$6 \$6 \$6 \$6 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7
Tailings Foundation & Buildings Areas  Yards, Etc. Drainage & Sediment Control  Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes**  Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pipe Removal Powerline Removal	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$135,235 Labor (1) \$0 \$0 \$0 \$0 \$0 \$0 \$160,000 \$0 \$94,836 \$922,530 \$0 \$425,916	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$0 \$48,301 Equipment (2) \$0 \$0 \$0 \$0 \$0 \$0 \$130,000 \$0 \$15,755 \$260,820	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 \$379,875 Materials \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$366,281 \$37,331 \$118,433 \$18,433 \$6 \$6 \$56 \$563,411  Total  Fotal \$6 \$6 \$6 \$6 \$6 \$6 \$7 \$6 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7
Tailings Foundation & Buildings Areas Yards, Etc. Drainage & Sediment Control Generic Material Hauling Other User Costs (from Other User sheet) Other**  Subtotal "B"  C. Detoxification/Water Treatment/Disposal of Wastes** Process Ponds/Sludge Heaps Dumps (Waste & Landfill) Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other**  Subtotal "C"  D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pipe Removal	\$87,920 \$8,960 \$4,760 \$4,424 \$0 \$0 \$0 \$135,235  Labor (1) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,067,999 \$160,000 \$0 \$94,836 \$922,530 \$0	\$31,400 \$3,200 \$1,700 \$1,580 \$0 \$0 \$48,301 Equipment (2) \$0 \$0 \$0 \$0 \$0 \$0 \$130,000 \$0 \$15,755 \$260,820	\$246,961 \$25,171 \$13,371 \$12,429 \$0 \$0 \$379,875 Materials \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$366,281 \$37,331 \$118,433 \$19,831 \$18,433 \$6 \$56 \$56 \$563,411  Total  \$6 \$56 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 1 of 2 Cost Summary

### **Closure Cost Estimate**

#### **Cost Summary**

# Project Name: Rosemont Copper World Mined Land Reclamation Plan

Project Date: June 7, 2021 Model Version: Version 1.4.1

File Name: ROSEMONT Copper World MLRP 06032021 SRCE Version 1 4 1 017b NV 2020.xlsm

File Name: ROSEMONT Copper World M	LRP_00032021_5RCE_	version_1_4_1_0	1/D_NV_ZUZU.XI	Sm
Other Misc. Costs	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Other**				\$0
Subtotal "D"	\$3,730,278	\$1,134,978	\$85,754	\$4,951,010
E. Monitoring	Labor (1)	Equipment (2)	Materials	Total
Reclamation Monitoring and Maintenance	\$139,046	\$22,030	\$44,146	\$205,222
Ground and Surface Water Monitoring	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Subtotal "E"	\$139,046	\$22,030	\$44,146	\$205,222
F. Construction Management & Support	Labor	Equipment (2)	Materials	Total
Construction Management	\$551,656	\$104,612	N/A	\$656,268
Construction Support	\$0	\$42,684	\$0	\$42,684
Road Maintenance	\$279,844	\$602,721	\$19,879	\$902,444
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Other**				\$0
Subtotal "F"	\$831,500	\$750,017	\$19,879	\$1,601,396
Subtotal Operational & Maintenance Costs	Labor (1)	Equipment (2)	Materials (3)	Total
Subtotal A through F	\$7,038,562	\$6,578,064	\$881,971	\$14,548,832

<sup>\*\*</sup> Other Operator supplied costs - additional documentation required.

Indirect Costs				Include?	Total
Engineering, Design and Construction (ED&C) Plan (7)					\$872,930
2. Contingency (8)					\$872,930
3. Insurance (9)		\$105,578			\$105,578
4. Performance Bond (10)					\$436,465
5. Contractor Profit (11)					\$1,454,883
Contract Administration (12)					\$1,163,907
7. Government Indirect Cost (13)					\$244,420
Subtotal Add-On Costs					\$5,151,113
Total Indirect Costs as % of Direct Cost					35%
					\$19,699,945
GRAND TOTAL					<b>\$15,035,345</b>
					\$15,055,545
GRAND TOTAL  Administrative Cost Rates (%)					\$19,099,940
		Cost Ranges	ofor Indirect Cos	t Percentages	\$19,099,940
	<=	Cost Ranges	for Indirect Cos	t Percentages	\$19,099,940
	<= \$1,000,000	<=			. , ,
Administrative Cost Rates (%)		<b>&lt;=</b> \$25,000,000		>	Small Plan
Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)	\$1,000,000	<b>&lt;=</b> \$25,000,000		<b>&gt;</b> \$25,000,000	Small Plan
Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)	\$1,000,000 8% <= \$500,000	<= \$25,000,000 6% <= \$5,000,000	<=	> \$25,000,000 4%	Small Plan  Small Plan
Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate	\$1,000,000 8% <= \$500,000 10%	<= \$25,000,000 6% <= \$5,000,000 8%	<= <=	> \$25,000,000 4% >	Small Plar
Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)	\$1,000,000 8% <= \$500,000 10% 1.5%	\$25,000,000 6% <= \$5,000,000 8% of labor costs	<= <= \$50,000,000 6%	\$25,000,000 4% > \$50,000,000	Small Plar 0% Small Plar
Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  Variable Rate	\$1,000,000 8% <= \$500,000 10% 1.5%	<= \$25,000,000 6% <= \$5,000,000 8%	<= <= \$50,000,000 6%	\$25,000,000 4% > \$50,000,000	Small Plar 0% Small Plar
1. Engineering, Design and Construction (ED&C) Plan (7) Variable Rate 2. Contingency (8) Variable Rate 3. Insurance (9)	\$1,000,000 8% <= \$500,000 10% 1.5% 3.0%	\$25,000,000 6% <= \$5,000,000 8% of labor costs	<= <= \$50,000,000 6%	\$25,000,000 4% > \$50,000,000	Small Plar 0% Small Plar
Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  Variable Rate  3. Insurance (9)  4. Bond (10)  5. Contractor Profit (11)	\$1,000,000 8% <= \$500,000 10% 3.0% <=	<pre>\$25,000,000 6% &lt;= \$5,000,000 8% of labor costs of the O&amp;M costs if O&amp;I of the O&amp;M costs </pre>	<= <= \$50,000,000 6%	\$25,000,000 4% > \$50,000,000 4%	Small Plar 0% Small Plar
Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  Variable Rate  3. Insurance (9)  4. Bond (10)  5. Contractor Profit (11)  6. Contract Administration (12)	\$1,000,000  8% <= \$500,000 10% 1.5% 3.0% 10% <= \$1,000,000	<pre>\$25,000,000 6% &lt;= \$5,000,000 8% of labor costs of the O&amp;M costs if O&amp;I of the O&amp;M costs &lt;= \$25,000,000</pre>	<= \$50,000,000 6% M costs are >\$100,000	\$25,000,000 4% > \$50,000,000 4% > \$50,000,000	Small Plar 0% Small Plar
Administrative Cost Rates (%)  1. Engineering, Design and Construction (ED&C) Plan (7)  Variable Rate  2. Contingency (8)  Variable Rate  3. Insurance (9)  4. Bond (10)  5. Contractor Profit (11)	\$1,000,000  8%  <=  \$500,000  10%  1.5%  3.0%  10%  <=  \$1,000,000  10%	<pre>\$25,000,000 6% &lt;= \$5,000,000 8% of labor costs of the O&amp;M costs if O&amp;I of the O&amp;M costs &lt;= \$25,000,000</pre>	<= \$50,000,000 6% M costs are >\$100,000	\$25,000,000 4% > \$50,000,000 4%	Small Pla 09 Small Pla

#### **RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES**

NOTE:

- 1. Federal construction contracts require Davis-Bacon wage rates for contracts over \$2,000. Wage rate estimates may include base pay, payroll loading,
- 2. The reclamation cost estimate must include the estimated plugging cost of at least one drill hole for each active drill rig in the project area. Where the
- 3. Miscellaneous items should be itemized on accompanying worksheets.
- 4. Fluid management should be calculated only when mineral processing activities are involved. Fluid management represents the costs of maintaining proper
- 5. Handling of hazardous materials includes the cost of decontaminating, neutralizing, disposing, treating and/or isolating all hazardous materials used, produced, 6. Any mitigation measures required in the Plan of Operations must be included in the reclamation cost estimate. Mitigation may include measures to avoid, 7. Engineering, design and construction (ED&C) plans are often necessary to provide details on the reclamation needed to contract for the required work. To
- 8. A contingency cost is included in the reclamation cost estimation to cover unforeseen cost elements. Calculate the contingency cost as a percentage of the
- 9. Insurance premiums are calculated at 1.5% of the total labor costs. Enter the premium amount if liability insurance is not included in the itemized unit costs.
- 10. Federal construction contracts exceeding \$100,000 require both a performance and a payment bond (Miller Act, 40 USC 270et seq.). Each bond premium is
- 11. For Federal construction contracts, use 10% of estimated O&M cost for the contractor's profit.
- 12. To estimate the contract administration cost, use 6 to 10% of the operational and maintenance (O&M) cost. Calculate the contract administration cost as a

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 2 of 2 Cost Summary

### RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES (Full Text)

#### NOTE:

- 1. Federal construction contracts require Davis-Bacon wage rates for contracts over \$2,000. Wage rate estimates may include base pay, payroll loading, overhead and profit. To avoid double counting of any of the identified administrative costs the operator must itemize the components of their labor cost estimates or provide BLM with a signed statement, under penalty of USC 1001, that identifies what specific administrative costs are included in the quoted hourly rate.
- 2. The reclamation cost estimate must include the estimated plugging cost of at least one drill hole for each active drill rig in the project area. Where the submitted Notice or approved Plan of Operations calls for drill holes to be plugged, but doesn't specifically require the drill holes be plugged before the drill rig has been moved from the drill pad, the reclamation cost estimate must include the plugging cost for those drill holes. For all drill holes and wells scheduled to be left open, the estimated plugging cost must be included in the reclamation cost estimate. Where the approved Plan of Operations proposes immediate mining through an area where the drilling is to occur, and the cost of the post-mining reclamation is included in the reclamation cost estimate, the cost estimate does not need to include the plugging costs for those drill holes.
- 3. Miscellaneous items should be itemized on accompanying worksheets.
- 4. Fluid management should be calculated only when mineral processing activities are involved. Fluid management represents the costs of maintaining proper fluid management to prevent overflow of solution ponds through premature cessation or abandonment of operations. Calculate a minimum six month direct cost estimate which includes power, supplies, equipment, labor and maintenance.
- 5. Handling of hazardous materials includes the cost of decontaminating, neutralizing, disposing, treating and/or isolating all hazardous materials used, produced, or stored on the site.
- Any mitigation measures required in the Plan of Operations must be included in the reclamation cost estimate.Mitigation may include measures to avoid, minimize, rectify and reduce or eliminate the impact, or compensate for the impact.
- 7. Engineering, design and construction (ED&C) plans are often necessary to provide details on the reclamation needed to contract for the required work. To estimate the cost to develop an ED&C plan use 4-8% of the O&M cost. Calculate the ED&C cost as a percentage of the O&M cost as follows: up to and including \$1 million, use 8%; over \$1 million to \$25 million, use 6%; and over \$25 million, use 4%. Inclusion of a line item for the development of an ED&C plan may not be necessary for small operations, such as notice-level exploration. With small, uncomplicated reclamation efforts contracting may be able to proceed without developing an ED&C plan. [ED&C is automatically eliminated if "Notice" is selected on the Property Information Sheet]
- 8. A contingency cost is included in the reclamation cost estimation to cover unforeseen cost elements. Calculate the contingency cost as a percentage of the O&M cost as follows: up to and including \$500,000, use 10%; over \$500,000 to \$5 million, use 8%; over \$5 million to \$50 million, use 6%; and greater than \$50 million, use 4%. As with the ED&C cost, inclusion of a contingency cost may not be necessary for small operations, such as notice-level exploration.
- 9. Insurance premiums are calculated at 1.5% of the total labor costs. Enter the premium amount if liability insurance is not included in the itemized unit costs.
- 10. Federal construction contracts exceeding \$100,000 require both a performance and a payment bond (Miller Act, 40 USC 270et seq.). Each bond premium is figured at 1.5% of the O&M cost. Enter the sum of both premium costs on this line.
- For Federal construction contracts, use 10% of estimated O&M cost for the contractor's profit.
- 12. To estimate the contract administration cost, use 6 to 10% of the operational and maintenance (O&M) cost. Calculate the contract administration cost as a percentage of the O&M cost as follows: up to and including \$1 million, use 10%; over \$1 million to \$25 million, use 8%; and greater than \$25 million use 6%.
- 13. Government indirect cost rate is 21% of the contract administration costs

#### **Closure Cost Estimate Reclamation Quantities**

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xism

Model Version: Version 1.4.1

Data Cost File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

<b>Description</b> Waste Rock Dumps	Total Regrade or Haul Volume cy	Total Regrade or Haul Cost	Total Cover	Cover	Total											T
IWaste Rock Dumps		\$	Volume cy	Placement Cost \$	Growth Media Volume cy	Growth Media Placement Cost \$	Total Surface Area acres	Total Scarify Cost \$	Total Revetation Cost \$	TOTALS \$	Regrade Unit Cost \$/CY	Material Haul or Backfill Unit Cost \$/CY	Cover Unit Cost \$/CY	Growth Media Unit Cost \$/CY	Scarify Unit Cost \$/CY	Area Unit Cost \$/acre
	77,440	\$ 10,455		\$ -		\$ -	148.94	\$ 33,456	\$ 70,573	\$ 114,484	\$0.14	N/A			\$224.63	\$768.6
Tailings Impoundments	337,724	\$ 393,518	1,428,413	\$ 5,069,173		\$ -	756.69	\$ 164,766	\$ 366,281	\$ 5,993,738	\$1.17	N/A	\$3.55		\$217.75	\$7,921.0
Heap Leach Pads		\$ -		\$ -		\$ -		\$ -	\$ -	\$ -		N/A				
Open Pits		\$ -							\$ -	\$ -		N/A				
Quarries & Borrow Pits		\$ -		\$ -		\$ -		\$ -	\$ -	\$ -		N/A				
Roads	32,622	\$ 21,329				\$ -	87.37	\$ -	\$ 50,962	\$ 72,291	\$0.65	N/A			\$0.00	\$827.4
Landfills		\$ -		\$ -		\$ -		\$ -	\$ -	\$ -		N/A				
Buildings			24,706		103,255	\$ 145,240	64		\$ 37,331	\$ 218,161		N/A	\$1.44	\$1.41	\$0.00	
Yards	10,000	\$ 17,145	54,853	\$ 76,950		\$ -	34	\$ 9,200	\$ 19,831	\$ 123,126	\$1.71	N/A	\$1.40		\$270.59	\$3,621.3
Ponds		\$ -				\$ -			\$ -	\$ -	N/A					
1 Exploration Roads		\$ -				\$ -		\$ -	\$ -	\$ -		N/A				
2 Exploration Trenches		\$ -							\$ -	\$ -		N/A				
B Diversion Ditches		\$ 27,995					25		\$ 14,581	\$ 42,576		N/A				\$1,703.0
Sediment Ponds	29,598	\$ 15,054	10,650			\$ 10,968	6.6	\$ 2,514	\$ 3,852	\$ 32,388	\$0.51	\$0.71			\$380.91	\$4,907.2
Generic Haulage/Backfill		\$ -		\$ -		\$ -		\$ -	\$ -	\$ -	N/A					<u> </u>
3 Adit/Decline Backfilling1		\$ -								\$ -	N/A					<b></b>
7 Shaft Backfilling		\$ -								\$ -	N/A					<u></u>
TOTALS Average Costs	487,384 per CY	\$ 485,496 \$1.00	1,518,622 per CY	\$ 5,181,713 \$3.41	103,255 per CY	\$ 156,208 \$1.51	1,122.60 per acre	\$ 209,936   187.01	\$ 563,411 \$2.68	\$ 6,596,764 \$5,876	per acre					

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Tota
Grading Costs Cover Placement Cost	\$2,038	\$8,417	N/A	\$
Cover Placement Cost	\$0	\$0	N/A	
Topsoil Placement Cost	\$0	\$0	N/A	
Ripping/Scarifying Cost	\$6,522	\$26,934	N/A	\$
Subtotal Earthworks	\$8,560	\$35,351	\$0	\$4
Revegetation Cost	\$16,940	\$6,050	\$47,583	\$
TOTALS	\$25,500	541,401	\$47,583	\$1

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate input
Program Calculated Value	Locked Cell - Formula or Reference

W	astı	s Rock Dumps - User Input				You must fill in	ALL green c			ump, lift or dun	p category										
		Facility Description						Phys	sical - MAND	ATORY					C	OVBI			Growth	Media	
1											Average Flat Area Long	Final	Regrade			Distance	Slope		l '		
					Underlying						Dimension	(Regraded)	Volume (1)	Cover	Cover	from	from		Flat Area	Distance from	Slope from
1		Description			Ground	Ungraded	Final	Final Top	Lift (dump)	Mid-Bench	(ripping	Dump	(if calculated	Thickness	Thickness Flat	Cover	Dump to	Slope Growth	Growth Media	Growth Media	Dump to
		(required)	ID Code	Type	Slope	Slope	Slope	Slope	Height	Length	distance)	Footprint	elsewhere)	Slopes	Areas	Borrow	Cover Borrow	Media Thickness	Thickness	Stockpile	Stockpile
					% Grade	_H:fV	_H:1V	% Grade	ft ft	ft	ft	acres	cy	in	in	ft	% grade	in	in '	ft	% grade
_	1	NRF		Waste Rock Dump	0.0	1.5	1.5	1.0	300	2,250	500	144.00	77440	0.0	0.0			0.0	0.0	0	0.0

Notes:

1. All Physical parameters must be input even if manual overrides for volume or area are used.

2. If Slope from facility to borrow source is >20, cownhill travel time may be underestimated due to limitation of uphili travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet) Reclamation only occurring on Plat Top, Underlying Ground slope set to 0, acres adjusted Growth Media removed, area will be covered with waste rock and seeded, no scarifying

Was	te Rock Dumps - User Input (cont.)				You must fill it	ALL green :	ells and releva		in this section to	each dump, l	nt or during categ	ory						
			Gradi	ng		G	over	Grav	vth Media					Revegeta	tion			
			n				Cover	Growth Media	Growth									
1	Description	Regrading Material	Regrading Material	Equipment	Slot/Side-by-	Cover Material	Placement Equipment	Media Material	Media Equipment	Seed Mix	Seed Mix Flat	Mulch	Mulch	Fertilizer	Fertilizer	Slope Scarify/	Flat Area Scarify	Scarify/ Ripping
1	(required)	Condition	Type	Fleet	Side	Туре	Fleet	Type	Fleet	Slopes	Areas	Slopes	Flat Areas	Slopes	Flat Areas	Rip?	Rip?	Fleet
		(select)	(select)	(select)	(select)	(select)	(select)	(select)	(select)	(select)	(select)	(select)	(select)	(select)	(select)	(select)	(select)	(select)
1	WRF	1	LS - broken	Large	Yes				Large Truck	None	Mix 4	None	None	None	None	No	Yes	Large Dozer

Notes:

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Birth's Reserved.

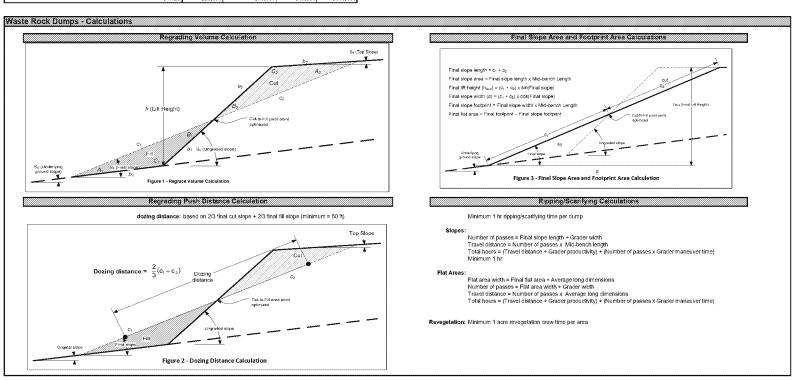
Page 1 of 3 Waste Rock Dumps Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1 Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Estimate Type: Surety

Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Tol
Grading Costs	\$2,038	\$8,417	N/A	
Cover Placement Cost	\$0	\$0	N/A	
Topsoil Placement Cost	\$0	\$0	N/A	
Ripping/Scarifying Cost	\$6,522	\$26,934	N/A	
Subtotal Earthworks	\$8,560	\$35,351	\$0	
Revegetation Cost	\$16,940	\$6,050	\$47,583	
TOTALS	\$25,500	\$41,401	\$47,583	\$1



Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1 Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

ste Rock Dumps - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$2,038	\$8,417	N/A	\$10
Cover Placement Cost	\$0	\$0	N/A	
Topsoil Placement Cost	\$0	\$0	N/A	
Ripping/Scarifying Cost	\$6,522	\$26,934	N/A	\$33
Subtotal Earthworks	\$8,560	\$35,351	\$0	\$43
Revegetation Cost	\$16,940	\$6,050	\$47,583	\$70
TOTALS	\$25,500	\$41,401	\$47,583	\$114

Waste Rock Dumps - Regrading Costs													
Productivity - Bozer Productivity - Grade Correction  Description (required)	Regrading	Dozing Distance (see above)	Regrading Fleet	Uncorrected Dozer Productivity	Grade Correction	Dozing Material	Density Correction	Side-by-Side or Slot Dozing	Total Hourly Productivity	Total Dozer Hours	Total Labor Cost	Total Equipment Cost	Total Regrading Cost
1 WRF	77,440	n 50	D10R	cy/hr 2,934	1.6	1.0	0.88	1.2	3,086	nr 25	\$2,038 \$2,038	\$8,417	\$10,45

Was	te Rock Dumps - Cover and Growth Media	Costs															
					Cover (lower	layer)							Growth Me	die Placem	9111		
	Description (required)	Cover Volume cy	Cover Replacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Cover Labor Cost \$	Cover Equipment Cost 3	Total Cover Cost	Growth Media Volume cy	Growth Media Replacement Fleet	Fleet Productivity BCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Growth Media Cost \$
1	WRF	0			Cover Material	over Materia	\$0	\$0	\$0	0					\$0	\$0	\$0
							\$0	\$0	\$0						\$0	\$0	\$0

Was	te Rock Dumps - Scarifying/Revegetation C	losts														
	1				1	1				1	Scarifying/					
	Description (required)	Slope Area acres	Flat Area acres	Total Surface Area acres	Final Slope Length	Flat Area Long Dimension	Ripping/ Scarifying Fleet	Slope Scarifying/ Ripping Hours hrs	Flat Area Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs \$	Ripping Equipment Cost S	Total Scarifying/ Ripping Costs S	Revegetation Labor Cost 3	Revegetation Equipment Cost S	Revgetation Material Cost \$	Total Revegetation Cost S
1	WRF	27.94	121.00	148.94	541	500	D10R		80	\$6,522	\$26,934	\$33,456	\$16,940	\$6,050	\$47,583	\$70,573
		27.94	121.00	148.94					80	\$6,522	\$26,934	\$33,456	\$16,940	\$6,050	\$47,583	\$70,573

Notes: 1) Minimum total ripping hours = 1 (i.e. if total ripping hrs (slope + flat) < 1, then one hour of fleet time is assumed, regardless of acres shown in in scarifying table.)
2) Assumes 50min/hr equipment availability

#### Closure Cost Estimate Tailings

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm Model Version: Version 1.4.1

Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

Tailings - Cost Summary				
	Labor	Equipment	Materials	Totals
Embankment Regrading Cost	\$0	\$0	N/A	\$4
Tailings Surface Grading Cost	\$76,711	\$316,807	N/A	\$393,518
Cover Placement Cost	\$1,378,576	\$3,690,597	N/A	\$5,069,173
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scerifying Cost	\$32,118	\$132,648	N/A	\$164,766
Subtotal Earthworks	\$1,487,405	\$4,140,052	\$0	\$5,627,457
Revegetation Cost	\$87,920	\$31,400	\$246,961	\$366,281
TOTALS	\$1,575,325	\$4,171,452	\$246,961	\$5,993,738

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

Tailii	igs - User Input					You must fill	in ALL green	cells and relev	ant blue cells in	this section b	or each tailings imp	oundment						
	Facility Description				p	hysical - MA	NOATORY					Co	ver			Grov	vih Media	
					Final		Final	Mid-	Embankment Regrade	Surface Regrade		Tailings	Distance	Slope		Tailings		Slope
			Underlying		(Regraded)	Final	Tailings	Embankment	Volume	Volume	L	Surface	from	from	Embankment	Surface	Distance from	from
	Description (required)	ID Code	Ground Slope	Ungraded Slope	Embankment	Embankment Height	Surface Area	or Ripping Length	(if calculated elsewhere)	(calculated elsewhere)	Embankment Cover Thickness	Cover	Cover	Tailings to Borrow	Growth Media Thickness	Growth Media Thickness	Growth Material Stockpile	Tailings to Stockpile
	(required)	1.5 0000	% Grade	_H:1V	_H:1V	ft	acres	ft	cy	cy	in	in	R	% grade	in	in	R	% grade
	TSF - 1		9.1	2.5	2.5	200	164.00	1,450		88,196	24.0	12.0	11,000	5.0	0.0	0.0	0	0.0
2	TSF - 2		8.5	2.5	2.5	200	120.00	5,750		64,533	24.0	12.0	15,000	5.0	0.0	0.0	0	0.0
3	TSF - 3		5.9	2.5	2.5	200	344.00	3,200		184,996	24.0	12.0	21,000	5.0	0.0	0.0	0	0.0

Notes:

1. All Physical parameters must be input even if manual overrides for volume or area are used.

2. If Slope from facility to borrow source is > 20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivity Sheet). Assumes cover material hauled from WRF or from immediately adjacent to TSF facilities. Assumes embankment constructed at final slope so no regrading required.

Assumes minor regrading of tailings surface (1 foot depth over 1/3 of tailings area) for drainage.

Taili	ngs - User Input (cont.)				You must fill it	1 ALL green c	ella and releva	nt blue celts i	1 Stip section for	each tailings	рироциателя							
			Gradi	ng		Co	ver	Grew	h Media					Revegetation				
	Description (required)	Regrading Material Condition (select)	Embankment Material Type (select)	Regrading Equipment Fleet (select)	Slot/Side-by- Side (select)	Cover Material Type (select)	Cover Placement Equipment Fleet (select)	Growth Media Material Type (select)	Growth Media Equipment Fleet (select)	Seed Mix Embankment Slope (select)	Seed Mix Tailings Surface (select)	Mulch Embankment Slopes (select)	Mulch Tailings Surface (select)	Fertilizer Embankment Slopes (select)	Fertilizer Talling Surface (select)	Embankment Slope Scarify/ Rip? (select)	Taillings Surface Scarify/ Rip? (select)	Scarifying/ Ripping Fleet (select)
1	TSF - 1			Large			Large Truck			None	Mix 4	None	None	None	None	No	Yes	Large Dozer
3	TSF - 2			Large Large			Large Truck Large Truck			None None	Mix 4	None None	None	None None	None None	No No	Yes Yes	Large Dozer Large Dozer

Notes

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

6/4/2021 Copyright © 2004 - 2000 SECS Software, All Fields Reserved.

Page 1 of 3 Tailings

#### Closure Cost Estimate Tailings

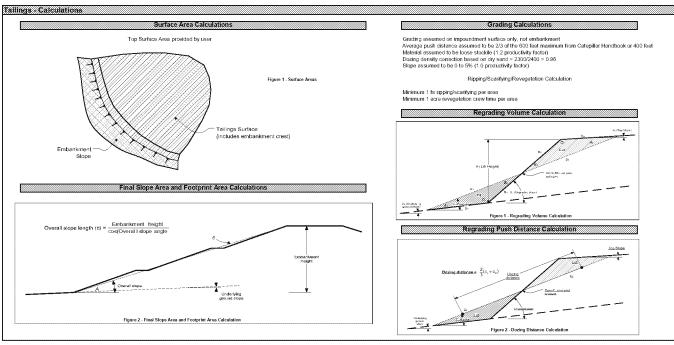
Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm Model Version: Version 1.4.1

Cost Data Sile: SRCE Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xism
Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

ailings - Cost Summary				
	Labor	Equipment	Materials	Totals
Embankment Regrading Cost	\$0	\$0	N/A	\$
Tailings Surface Grading Cost	\$76,711	\$316,807	N/A	\$393,51
Cover Placement Cost	\$1,378,576	\$3,690,597	N/A	\$5,069,17
Topsoil Placement Cost	\$0	\$0	N/A	\$
Ripping/Scenifying Cost	\$32,118	\$132,648	N/A	\$164,76
Subtotal Earthworks	\$1,487,405	\$4,140,052	\$0	\$5,627,45
Revegetation Cost	\$87,920	\$31,400	\$246,961	\$366,28
TOTALS	\$1,575,325	\$4,171,452	\$246,961	\$5,993,731



Tailir Produ	igs - Embankment Regrading Costs	Density Corr	ection x Operati	or (0.75) x N	aterial x Visil	ollity x Job I	fficiency (f	831 x (Slot)	Side-by-Side!	x (Altitude C	eration)			
	Description (required)	Regrading Volume cy	Dozing Distance (see above) It	Regrading Fleet	Uncorrected Dozer Productivity cy/hr	Grade Correction	Dozing Material Condition	Density Correction	Side-by-Side or Slot Dozing	Total Hourly Productivity cy/hr	Total Dozer Hours	Total Labor Cost 3	Total Equipment Cost \$	Total Regrading Cost S
1	TSF - 1	0		D10R					<del> </del>			\$0	\$0	\$0
2	TSF - 2	0		D10R								\$0	\$0	\$0
3	TSF - 3	0		D10R								\$0	\$0	\$0
			i									\$0	\$0	\$0

Tailii Prode	ngs - Surface Regrading Costs uctivity = Dozer Productivity x Grade Correction x	Density Corn	ection x Operati	or (0.75) x M	aterial x Visil	allity x Job I	fficiency (0	83) x (Slot/	Side-by-Side)	x (Altitude I	Jeration)			
	Description (required)	Regrading Volume cy	Dozing Distance (see above) ft	Regrading Fleet	Uncorrected Dozer Productivity cy/hr	Grade Correction	Density Correction	Dozing Material	Side-by-Side or Slot Dozing	Total Hourly Productivity cy/hr		Total Labor Cost S	Total Equipment Cost \$	Total Regrading Cost S
1	TSF - 1	88,196	400	D10R	501	1.00	0.96	1.20	1.00	359	246	\$20,054	\$82,821	\$102,875
2	TSF - 2	64,533	400	D10R	501	1.00	0.96	1.20	1.00	359	180	\$14,674	\$60,601	\$75,275
3	TSF - 3	184,996	400	D10R	501	1 00	0.96	1 20	1.00	359	515	\$41,983	\$173,385	\$215,368
		337,724									941	\$76,711	\$316,807	\$393,518

Cover Piscement Empirical Growth (Sedia Piacement	

6/4/2021 Copyright © 2004 - 2009 SECTS Softman, All Finith Reserved.

Page 2 of 3 Taitings

#### Closure Cost Estimate Tailings

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan
Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Easi File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Nevada - Adjusted for Arizona

ailings - Cost Summary				
	Labor	Equipment	Materials	Totals
Embankment Regrading Cost	\$0	\$0	N/A	\$0
Tailings Surface Grading Cost	\$76,711	\$316,807	N/A	\$393,518
Cover Placement Cost	\$1,378,576	\$3,690,597	N/A	\$5,069,173
Topsoil Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$32,118	\$132,648	N/A	\$164,766
Subtotal Earthworks	\$1,487,405	\$4,140,052		\$5,627,457
Revegetation Cost	\$87,920	\$31,400	\$246,961	\$366,281
TOTALS	\$1,575,325	\$4,171,452	\$246,961	\$5,993,738

	Revegetation Cost	\$87,92			\$366,281											
	TO	ALS \$1,575,32	5 \$4,171,452	\$246,961	\$5,993,738											
	Description (required)	Cover Volume	Cover Placement Fleet	Cover Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost S	Total Cover Placement Cost	Growth Media Volume cy	Growth Media Placement Fleet	Number of	Total Fleet Hours	Total Labor Cost 3	Total Equipment Cost \$	Total Growth Media Cost S
	TSF - 1	322,473	769D/988G/D7R	779	7	414	\$245,899	\$645,679				T		\$0	\$0	\$0
	TSF - 2	423,177	769D/988G/D7R	807	9	524	\$375,729							\$0	\$0	\$0
3	TSF - 3	682,763	769D/988G/D7R	758	11	901	\$756,948							\$0	\$0	\$0
		1,428,413				1,839	\$1,378,576	\$3,690,597	\$5,069,173			 		\$0	\$0	\$0

	Description (required)	Embankment Slope Area acres	Tailings Surface Area acres	Total Surface Area acres	Final Slope Length ft	Ripping/ Scarifying Fleet	Slope Scarifying/ Ripping Hours hrs	Flat Area Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Cost \$	Scarifying/ Ripping Equipment Cost \$		Revegetation Labor Cost 3	Revegetation Equipment Cost	Revgetation Material Cost S	Total Revegetation Cost \$
1	TSF - 1	17.94	164.00	181.94	539	D10R		86	\$7,744	\$31,984	\$39,728	\$22,960	\$8,200	\$64,493	\$95,653
	TSF - 2 TSF - 3	71.15 39.60	120.00 344.00	191.15 383.60	539 539	D10R D10R	<b> </b>	62	\$8,070 \$16,304	\$33,330 \$67,334	\$41,400 \$83,638	\$16,800 \$48,160	\$6,000 \$17,200	\$47,190 \$135,278	\$69,990 \$200.638
	15F-3	128.69	628.00	756.69	228	DIOR	<del> </del>	327	\$32,118	\$132,648	\$164,766	\$87,920	\$31,400	\$246,961	\$366,281

#### Closure Cost Estimate Roads

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm 

Roads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs Cover Placement Cost	\$4,158	\$17,171	N/A	\$21,329
	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$4,158	\$17,171		\$21,329
Revegetation Cost	\$12,231	\$4,371	\$34,360	\$50,962
TOTALS	\$16,389	\$21,542	\$34,360	\$72,291

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

Maximum slope grade allowed for dozer: 36: % (max 40%)

Road	ds - User Input Facility Description						nd relevant blue o		n for each road		/errides		Growth Media	
	Description (required) ID	Code	Туре	Underlying Ground Slope % grade	Ungraded Slope _H:1V	Cut Slope degrees	Road Width	Road Length	Slope Replacement Percent	Regrade Volume (if calculated elsewhere) cy	Disturbed Area (if calculated elsewhere) acres	Growth Media Thickness in	Haul Distance from Growth Media Stockpile ft	Slope from Road to Stockpile % grade
1	WRF-Peach/Elgin	Haul	Road	10.0	1.0	70.0	94.0	3,015	20%			0.0		
2	Pit-Crusher (Around Flotation)	Haul	Road	10.0	1.0	70.0	94.0	4,729	20%			0.0		
3	Copper World-PE	Haul	Road	10.0	1.0	70.0	94.0	2,756	20%			0.0		
	Utility Corridor Access Road		ess Road	5.0	1.0	70.0	30.0	66,000	20%			0.0		
5	Utility Corridor - Pipe corridor	Acce	ess Road	5.0	1.0	70.0	10.0	66,000	20%			0.0		

- Notes:
  1. All Physical parameters must be input even if manual overrides for volume or area are used.
  2. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivry Sheet)
  3. Because the work required for building roads with a dozer is similar to that required to regrade a road with a dozer, this sheet could be used to provide a rough estimate of road construction costs if a dozer is selected as the grading fleet.

  Assumes graded road material vegetated in place without need for growth media

Roac	is - User Input (cont.)					
			Haul	Road Safety B	lerms	
	Description (required)	Berm Length ft	Berm Height ft	Berm Base Width ft	Berm Sideslope Angle _H:1V	Number of Berms (2) (1 or 2 sides)
1	WRF-Peach/Elgin	3,015.0	6.0	12.0	1.0	1
2	Pit-Crusher (Around Flotation)	8,527.0	6.0	12.0	1.0	1
3	Copper World-PE	2,756.0	6.0	12.0	1.0	1
	Utility Corridor Access Road	0.0	0.0	0.0	0.0	
5	Utility Corridor - Pipe corridor	0.0	0.0	0.0	0.0	

(2) Enter 1 if berm on only one side of road, 2 if both sides of road are bermed.

Road	ds + User Input (cont.) You must fill in ALL green cells and relevant blue cells and this section for each road												
			Gra	iding			<b>Growth Media</b>				Revegetation		
	Description (required)	Regrading Material Condition (select)	Regrading Material Type (select)	Regrading Equipment Fleet (select)	No. of Excavators if grade >30% (select)		Cover Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Scarifying/ Ripping? (select)	Ripping Fleet (select)
1	WRF-Peach/Eigin	1	Alluvium	Lg Dozer		Alluvium	Large Truck		Mix 4	None	None	No	
2	Pit-Crusher (Around Flotation)	1	Alluvium	Lg Dozer		Alluvium	Large Truck		Mix 4	None	None	No	
	Copper World-PE	1	Alluvium	Lg Dozer		Alluvium	Large Truck		Mix 4	None	None	No	
	Utility Corridor Access Road			Lg Dozer					Mix 4	None	None	No	
5	Utility Corridor - Pipe corridor	1	Alluvium	Lg Dozer					Mix 4	None	None	No	

- Notes:

  1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

  2. If original slope >30% only excavators are allowed.

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Right's Reserved.

Page 1 of 3

#### Closure Cost Estimate Roads

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

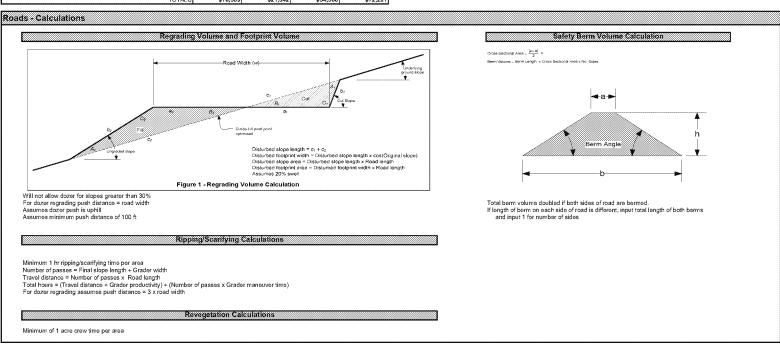
Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Estimate Type: Surety

Cost Basis: Southern Nevada - Adjusted for Arizona

Roads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs Cover Placement Cost	\$4,158	\$17,171	N/A	\$21,329
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$4,158	\$17,171		\$21,329
Revegetation Cost	\$12,231	\$4,371	\$34,360	\$50,962
TOTALS	\$16.380	\$21.542	\$34,360	\$72 201



6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Right's Reserved.

Page 2 of 3

#### Closure Cost Estimate Roads

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Roads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs Cover Placement Cost	\$4,158	\$17,171	N/A	\$21,329
	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$4,158	\$17,171		\$21,329
Revegetation Cost	\$12,231	\$4,371	\$34,360	\$50,962
TOTALS	\$16,389	\$21,542	\$34,360	\$72,291

		1				Total	Total	
	Description (required)	Regrading	Recontouring	Fleet		Labor	Equipment	Total Regrading Cost
	(required)	Volume	Fleet	Productivity	Total Fleet Hours	Cost	Cost	Cost
		cy		cy/hr	hr	\$	\$	\$
1	WRF-Peach/Elgin Pit-Crusher (Around Flotation)	6,919	D10R	627	11	\$897	\$3,703	\$4,60
2	Pit-Crusher (Around Flotation)	15,916	D10R	627	25	\$2,038	\$8,417	\$10,45
3	Copper World-PE	6,325	D10R	627	10	\$815	\$3,367	\$4,18
4	Utility Corridor Access Road	3,117	D10R	716	4	\$326	\$1,347	\$1,67
5	Utility Corridor - Pipe corridor	345	D10R	716	1 1	\$82	\$337	\$41
	······································	32.622			51	\$4,158	\$17,171	\$21,32

Road	is - Growth Media Costs							
-						 	<del></del>	<del></del>
	Description (required)	Growth Media Volume cy	Growth Media Replacement	Fleet Productivity LCY/hr	Number of	Total Labor	Total Equipment Cost \$	Total Growth Media Cost \$
1	WRF-Peach/Elgin					\$0	\$0	\$0
2	WRF-Peach/Elgin Pit-Crusher (Around Flotation)					\$0	\$0	\$(
3	Copper World-PE					\$0	\$0	\$0
4	Utility Corridor Access Road					\$0	\$0	\$0
5	Utility Corridor - Pipe corridor					\$0	\$0	\$0
						\$0	\$0	\$(

Roac	s - Scarifying/Revegetation Costs											
	Description (required)	Total Surface Area acres	Final Slope Length fl	Ripping/ Scarifying Fleet	Ripping Hours	Ripping Labor Costs \$	Ripping Equipment Cost \$	Total Ripping Costs \$	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revgetation Material Cost	Total Revegetation Cost \$
1	WRF-Peach/Eigin	7.03	102.0			\$0	\$0	\$0	\$984	\$352	\$2,765	\$4,101
2	Pit-Crusher (Around Flotation)	11.03	102.0			\$0	\$0	\$0	\$1,544	\$552	\$4,338	\$6,434
3	Copper World-PE	6.43	102.0			\$0	\$0	\$0	\$900	\$322	\$2,529	\$3,751
	Utility Corridor Access Road	47.17	31.0			\$0	\$0	\$0	\$6,604	\$2,359	\$18,550	\$27,513
5	Utility Corridor - Pipe corridor	15.71	10.0			\$0	\$0	\$0	\$2,199	\$786	\$6,178	\$9,163
		87.37		*		\$0	\$0	\$0	\$12,231	\$4,371	\$34,360	\$50,962

#### Closure Cost Estimate Foundations & Buildings

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xism
Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

dings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,000,560	\$600,336	N/A	\$1,600,8
Wall Demolition Cost	\$1,057,212	\$92,167	N/A	\$1,149,3
Slab Demolition	\$10,227	\$35,900	N/A	\$46,12
Subtotal Demolition	\$2,067,999	\$728,403	\$0	\$2,796,40
Cover Placement Cost	\$10,592	\$24,998	N/A	\$35,59
Growth Media Placement Cost	\$43,224	\$102,016	N/A	\$145,24
Ripping/Scarifying Cost	\$0	\$0	N/A	3
Subtotal Earthworks	\$53,816	\$127,014	\$0	\$180,83
Revegetation Cost	\$8,960	\$3,200	\$25,171	\$37,3
TOTALS	\$2,130,775	\$858,617	\$25,171	\$3,014,5

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

Minimum thickness of cover over unbroken slab:

	Facility Description						Physical -	MANDATORY				Fou	ndation Cove	r (1)	Growth M	edia (†) (entire	footprints
	Description (required)	ID Code	Туре	Length fl	Width ft	Eve Height fl	Slab Thickness in	Foundation Wall Thickness in	Foundation Wall Height ft	Average Flat Area Long Dimension (ripping distance) fl	Footprint (including surrounding facilities) acres	Foundation Cover Thickness in	Distance from Foundation Cover Borrow Area ft	Slope from Facility to Borrow Area % grade	Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Facility to Stockpile % grade
1	Flotation Building A		Process - Plant & Buildings	170	100	30	12	12	6	170	15.00	48	500	5.0	12	500	5.0
2	Flotation Building B		Process - Plant & Buildings	170	100	30	12	12	6	170	11.00	48	500	5.0	12	500	5.0
3	Grinder Building		Process - Crushing & Screening	200	140	30	12	12	6	200	15.00	48	500	5.0	12	500	5.0
4	Crusher Building		Process - Crushing & Screenis	100	50	30	12	12	6	100	15.00	48	500	5.0	12	500	5.0
5	Buildings General		Site Facilities - Buildings	240	205	30	12	12	6	240	2.00	48	500	5.0	12	500	5.0
6	Moly Filtration and Concrete Loadout Building		Process - Plant & Buildings	100	130	30	12	12	6	130	2.00	48	500	5.0	12	500	5.0
7	Copper/Moly Load Out Building		Process - Plant & Buildings	180	120	30	12	12	8	180	2.00	48	500	5.0	12	500	5.0
9	Molybdenum Plant		Process - Plant & Buildings	112	140	30	12	12	6	140	2.00	48	500	5.0	12	500	5.0

Notes

1. Foundation cover only calculated to cover slab. Growth media estimated over entire footprint area

2. if Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

		Cons	ruction Materials	Slab D	emolition	F	oundation Co	ær		Growth Media	1			Revegetation		
	Description (required)	Building Type (select)	Foundation Wali Type (select)	Slab Demo Method (select)	Breaking Equipment Fleet (select)	Cover Material Type (select)	Cover Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Growth Media Material Type (select)	Growth Media Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Seed Mix (select)	Mulch (select)	Fertifizer (select)	Scarify/ Rip? (select)	Ripping Fleet (select)
1	Flotation Building A	Lg. steel	Conc 12 in (300 mm) thick	Break & bury	Lg Excavator	LS - broken	Large Truck		Alluvium	Large Truck		Mix 4	None	None	No	
2	Flotation Building B	Lg. steel	Conc 12 in (300 mm) thick	Break & bury	Lg Excavator	LS - broken	Large Truck		Alluvium	Large Truck		Mix 4	None	None	No	
3	Grinder Building	Lg. steel	Conc 12 in (300 mm) thick	Break & bury	Lg Excavator	LS - broken	Large Truck		Alluvium	Large Truck		Mix 4	None	None	No	
4	Crusher Building	Lg. steel	Conc 12 in (300 mm) thick	Break & bury	Lg Excavator	LS - broken	Large Truck		Alluvium	Large Truck		Mix 4	None	None	No	
5	Buildings General	Lg. steel	Conc 12 in (300 mm) thick	Break & bury	Lg Excavator	LS - broken	Large Truck		Alluvium	Large Truck		Mix 4	None	None	No	
6	Moly Filtration and Concrete Loadout Building	Lg. steel	Conc 12 in (300 mm) thick	Break & bury	Lg Excavator	LS - broken	Large Truck		Alluvium	Large Truck		Mix 4	None	None	No	
7	Copper/Moly Load Out Building		Conc 12 in (300 mm) thick			LS - broken	Large Truck		Alluvium	Large Truck		Mix 4	None	None	No	
	Molybdenum Plant	Lg. steel	Conc 12 in (300 mm) thick	Break & bury	I a Excavator	LS - broken	Large Truck		Alluvium	Large Truck		Mix 4	None	None	No	

Notes:

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

6/4/2021 Copyright 0 2004 - 2009 SRCC Softenes, All Rights Reserved

Page 1 of 3 Foundations & Buildings Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

	************			
illdings & Foundation Demolition Cost Summary				
	Labor	Equipment	Materials	Totals
Building Demolition Cost	\$1,000,560	\$600,336	N/A	\$1,600,89
Wall Demolition Cost	\$1,057,212	\$92,167	N/A	\$1,149,379
Slab Demolition	\$10,227	\$35,900	N/A	\$46,127
Subtotal Demolition	\$2,067,999	\$728,403	\$0	\$2,796,402
Cover Placement Cost	\$10,592	\$24,998	N/A	\$35,590
Growth Media Placement Cost	\$43,224	\$102,016	N/A	\$145,240
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$53,816	\$127,014	\$0	\$180,830
Revegetation Cost	\$8,960	\$3,200	\$25,171	\$37,33
TOTALS	\$2 130 775	\$858 617	\$25 171	\$3,014,563

#### Buildings & Foundation - Calculations

#### Building Volume Calculations

Using Means Heavy Construction Cost Data (2004) calculates cubic feet from building dimensions Estimage slab thickness and well thickness if not known

Assumes that all concrete slabs are reinforced
Productivity for crew from Means Heavy Construction Cost Data (2004) adjusted for supervision

(addressed in Misc. Costs) and Davis-Bacon Wage Rates
Demolition costs do not include hauling or disposing if debris - Use Waste Disposal module

#### Slab Demolition Calculations

Minimum 1 hr excavator time for slab demolition

#### Cover Volume Calculation

Foundation area x cover thickness

if "Bury in Place" is selected as slab demolition method, cover thickness is adjusted such that total cover (cover + growth media) equals value entered in "Minimum thickness of cover over unbroken slab" cell above

#### Ripping/Scarifying Calculations

Flat area width = Final flat area + Average long dimensions

Plet alse warm in Final risk dead "Average to fig utilities soons.

Number of passos = Flat area width = Crader width
Travel distance = Number of passes = X verage long dimensions.

Total hours = Crawel distance = Grader productivity + (Number of passes x Grader maneuver time).

#### Revegetation

Minimum 1 acre revegetation crew time per area

Buil	ding & Foundation Demolition Costs			Uses RS Mean	s Heavy Constri	iction Cost Data	for building and	i wali demolitio	n cost exiculati	ons. Uses CAT H	fandbook for slab i	reaking product	tion						
								Bui	lding Demoli	ion	W	all Demoktion		\$	lab Demolitio	n		Total Costs	
	Description (required)	Building Footprint (slab area) sqft	Building Volume cu fl	Wall Length ft	Wall Area sq ft	Slab Demolition Fleet	Slab Volume cy	Total Labor Cost \$	Total Equipment Cost \$	Total Building Demolition Cost \$	Total Labor Cost \$	Total Equipment Cost S	Total Wall Demolition Cost \$	Total Labor Cost S	Total Equipment Cost S	Total Slab Breaking Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Demolition Costs \$
1	Flotation Building A	17,000	510,000	540	3,240	385BL	630	\$102,000	\$61,200	\$163,200	\$126,360	\$11,016	\$137,376	\$1,046	\$3,670	\$4,716	\$229,406	\$75,886	\$305,292
2	Flotation Building B	17,000	510,000	540	3,240	385BL	630	\$102,000	\$61,200	\$163,200	\$126,360	\$11,016	\$137,376	\$1,046	\$3,670	\$4,716	\$229,406	\$75,886	\$305,292
3	Grinder Building	28,000	840,000	680	4,080	385BL	1,037	\$168,000	\$100,800	\$268,800	\$159,120	\$13,872	\$172,992	\$1,715	\$6,022	\$7,737	\$328,835	\$120,694	\$449,529
4	Crusher Building	5,000	150,000	300	1,800	385BL	185	\$30,000		\$48,000	\$70,200	\$6,120	\$76,320	\$310	\$1,090		\$100,510		\$125,720
5	Buildings General	49,200	1,476,000	890	5,340	385BL	1,822	\$295,200	\$177,120	\$472,320	\$208,260	\$18,156	\$226,416	\$3,006	\$10,552	\$13,558	\$506,466	\$205,828	\$712,294
6	Moly Filtration and Concrete Loadout Building	13,000	390,000	460	2,760	385BL	481	\$78,000	\$46,800	\$124,800	\$107,640	\$9,384	\$117,024	\$801	\$2,810	\$3,611	\$186,441	\$58,994	\$245,435
7	Copper/Moly Load Out Building	21,600	648,000	600	3,600	385BL	800	\$129,600	\$77,760	\$207,360	\$140,400	\$12,240	\$152,640	\$1,323	\$4,645	\$5,968	\$271,323	\$94,645	\$365,968
8	Molybdenum Plant	15,960	478,800	508	3,048	385BL	591	\$95,760	\$57,456	\$153,216	\$118,872	\$10,363	\$129,235	\$980	\$3,441	\$4.421	\$215,612	\$71,260	\$286,872
			5,002,800	T			6,176	\$1,000,560	\$600,336	\$1,600,896	\$1.057,212	\$92,167	\$1,149,379	\$10,227	\$35,900	\$46,127	\$2,067,999	\$728,403	\$2,796,402

Build	ling & Foundation - Foundation Cover and	Growth Me	dia Costs		Foundation C	over							Growth	Media				Total Cove	r & Growth M	ledia Costs
	Description (required)	Cover Volume	Cover Repacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost 3	Total Equipment Cost \$	Total Cover Cost S	Growth Media Volume cy	Growth Media Repacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost S	Total Equipment Cost \$	Total Growth Media Cost S	Total Labor Cost S	Total Equipment Cost \$	Total Costs
1	Flotation Building A	2,519	769D/988G/D7R	684	2	4	\$1,145	\$2,702	\$3,847	24,200	769D/988G/D7R	684	2	35	\$10,019	\$23,646	\$33,665	\$11,164	\$26,348	\$37,512
2	Flotation Building B	2,519	769D/988G/D7R	684	2	4	\$1,145	\$2,702	\$3,847	17,747	769D/988G/D7R	684	2	26	\$7,443	\$17,566	\$25,009	\$8,588	\$20,268	\$28,856
3	Grinder Building	4,148	769D/988G/D7R	684	2	6	\$1,718	\$4,054	\$5,772	24,200	769D/988G/D7R	684	2	35	\$10,019	\$23,646	\$33,665	\$11,737	\$27,700	\$39,437
4	Crusher Building	741	769D/988G/D7R	684	2	1	\$286	\$676	\$962	24,200	769D/988G/D7R	684	2	35	\$10,019	\$23,646	\$33,665	\$10,305	\$24,322	\$34,627
5	Buildings General	7,289	769D/988G/D7R	684	2	11	\$3,149	\$7,432	\$10,581	3,227	769D/988G/D7R	684	2	5	\$1,431	\$3,378	\$4,809	\$4,580	\$10,810	\$15,390
6	Moly Filtration and Concrete Loadout Building	1,926	769D/988G/D7R	684	2	3	\$859	\$2,027	\$2,886	3,227	769D/988G/D7R	684	2	5	\$1,431	\$3,378	\$4,809	\$2,290	\$5,405	\$7,695
7	Copper/Moly Load Out Building	3,200	769D/988G/D7R	684	2	5	\$1,431	\$3,378	\$4,809	3,227	769D/988G/D7R	684	2	5	\$1,431	\$3,378	\$4,809	\$2,862	\$6,756	
8	Molybdenum Plant	2,364	769D/988G/D7R	684	2	3	\$859	\$2,027	\$2,886	3,227	769D/988G/D7R	684	2	5	\$1,431	\$3,378	\$4,809	\$2,290	\$5,405	\$7,695
		24,706				37	\$10,592	\$24,998	\$35,590	103,255	1			151	\$43,224	\$102,016	\$145,240	\$53,816	\$127,014	\$180,830

#### Building & Foundation - Scarifying/Revegetation Costs

6/4/2021 Copyright 0 2004 - 2009 SNCC Software, At Right's Reserved

Page 2 of 3 Foundations & Buildings

#### Closure Cost Estimate Foundations & Buildings

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Eata File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont RoyLogor RoyLogo

	Labor	Equipment	Materials	Tot
Building Demolition Cost	\$1,000,560	\$600,336	N/A	\$1,
Wall Demolition Cost	\$1,057,212	\$92,167	N/A	\$1,
Slab Demolition	\$10,227	\$35,900	N/A	
Subtotal Demolition	\$2,067,999	\$728,403	\$0	\$2,
Cover Placement Cost	\$10,592	\$24,998	N/A	
Growth Media Placement Cost	\$43,224	\$102,016	N/A	\$
Ripping/Scarifying Cost	\$0	\$0	N/A	
Subtotal Earthworks	\$53,816	\$127,014	\$0	\$
Revegetation Cost	\$8,960	\$3,200	\$25,171	
TOTALS	\$2,130,775	\$858.617	\$25,171	\$3,1

100000						arifying/Rippi		1	Reve	getation		To	tal Scarriy & R	wegation Co	sts
	Description (required)	Flat Area acres	Ripping/ Scarifying Fleet	Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs \$	Ripping Equipment Cost \$	Scarifying/ Ripping Costs \$	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revgetation Material Cost S	Total Revegetation Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Material Cost 3	Total Costs \$
1	Flotation Building A	15.00		İ	\$0	\$0	\$0	\$2,100	\$750	\$5,899	\$8,749	\$2,100	\$750	\$5,899	\$8,749
2	Flotation Building B	11.00			\$0	\$0	\$0	\$1,540	\$550	\$4,326	\$6,416	\$1,540	\$550	\$4,326	\$6,416
3	Grinder Building	15 00			\$0	\$0	\$0	\$2,100	\$750	\$5,899	\$8,749	\$2,100	\$750	\$5,899	\$8,749
4	Crusher Building	15.00		T	\$0	\$0	\$0	\$2,100	\$750	\$5,899	\$8,749	\$2,100	\$750	\$5,899	\$8,749
	Buildings General	2.00			\$0	\$0	\$0	\$280	\$100	\$787	\$1,167	\$280	\$100	\$787	\$1,167
6	Moly Filtration and Concrete Loadout Building	2.00			\$0	\$0	\$0	\$280	\$100	\$787	\$1,167	\$280	\$100	\$787	\$1,167
7	Copper/Moly Load Out Building Molybdenum Plant	2.00			\$0	\$0	\$0	\$280	\$100	\$787	\$1,167	\$280	\$100	\$787	\$1,167
8	Molybdenum Plant	2.00			\$0	\$0	\$0	\$280	\$100	\$787	\$1,167	\$280	\$100	\$787	\$1,167
		64 00			\$0	\$0	\$0	\$8,960	\$3,200	\$25,171	\$37,331	\$8,960	\$3,200	\$25,171	\$37,331

6/4/2021 Copyright 0 2004 - 2009 SRICE Softense, All Rights Reserved.

# Closure Cost Estimate Other Demo & Equip Removal

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan
Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Nevada - Adjusted for Arizona

Other Demoition and Equipment Removal - Cost Summary				
	Labor	Equipment	Materials	Totals
Other Demolition	\$160,000	\$130,000	\$60,000	\$350,000
Equipment Removal	\$0	\$0	\$0	\$0
TOTALS	\$160,000	\$130,000		\$350,000

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

Othe	r Demolition								
	Facility Description								
	Description (required)	ID Code	Туре	Quantity	Units	Labor Unit Cost §	Equipment Unit Cost	Material Unit Cost %	Total Cost 3
1	Removal of FWDS Pump Station #1 and #2 Abandon Tailings Pipeline In Place		Site Facilities - Buildings	2	EA	\$55,000.00	\$40,000.00	\$5,000.00	\$200,000
2	Abandon Tailings Pipeline In Place		Site Facilities - Structures	1	LS	\$50,000.00	\$50,000.00	\$50,000.00	\$150,000
						\$160,000	\$130,000	\$60,000	\$350,000

Notes: 1. 24-inch diameter tailings pipeline under BLM property (~1700 linear feet) abandoned in place and filled with grout

Equi	oment & Material Removal								
	Facility Description								
	Description (required)	ID Code	Туре	Quantity	Units	Labor Unit Cost (\$)	Equipment Unit Cost (\$)	Material Unit Cost (\$)	Total Cost (\$)
						\$0	\$0	\$0	

Notes:

#### Closure Cost Estimate Sediment & Drainage Control

1 of 3

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Total of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$7,858	\$20,137	N/A	\$2
Diversion Ditch Liner	\$0	\$0	\$0	
Diversion Ditch Rip-Rap	\$563,962	\$107,433	\$345,233	\$1,016
Sed Pond Construct/Regrade	\$2,934	\$12,120	N/A	\$15
Liner Installation	\$0	\$0	\$0	
Sed Pond Cover	\$2,934	\$8,034	N/A	\$10
Ripping/Scarifying Cost	\$492	\$2,022	N/A	\$2
Subtotal Earthworks	\$578,180	\$149,746	\$345,233	\$1,073
Diversion Ditch Revegetation	\$3,500	\$1,250	\$9,831	\$14
Sediment Pond Revegetation	\$924	\$330	\$2,598	\$3
Subtotal Revegetation	\$4,424	\$1,580	\$12,429	\$18
TOTALS	\$582,604	\$151.326	\$357.662	\$1.091

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

D	iversion Ditches - User Input															
					Div	rsions Ditch	98				Revegetation			Liner and Rip-	Rap Installati	tan
	Description (required)	ID Code	Diversion Length ft	Diversion Depth If	Ditch Bottom Width ft	Ditch Sideslope Angle _H:1V	Excavate Volume (if calculated elsewhere) Cy	Excavating Material Condition (select)	Excavating Equipment Fleet (select)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Liner Area S.Y.	Liner Type (select)	Rip-Rap Area S.Y.	Rip-Rap Type (select type)
1	Stormwater Ditch - no riprap		44800	3.0	6.0	2.0		1	Large	Mix 4	None	None	0		0	
1 2	Stormwater Ditch - rip rap lined		11200	3.0	6.0	2.0		1	Large	Mix 4	None	None	0		24,142	Gabions, 12 in (30

Notes: Riprap assumes bottom and sides of ditch covered

Sec	Sediment/Evaporation Pond Construction/Removal - User Input													
						Sedimen	Ponds					Growth Media		
	Description (required)	ID Code	Pond Width ft	Pond/Berm Length ft	Berm Height ft	Crest Width	Sideslope Angle _H:1V	Final Area (if calculated elsewhere) acres	Regrade Volume (if calculated elsewhere) Cy	Cover Volume (if calculated elsewhere) Cy	Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Pond to Borrow % grade	
1	Retention Pond 1		100	300	10.0	17.0	2.0				12	500	5.0	
2	Retention Pond 2		100	300	10.0	17.0	2.0				12	500	5.0	
3	Retention Pond 3		100	300	10.0	17.0	2.0				12	500	5.0	
4	Retention Pond 4		100	300	10.0	17.0	2.0				12	500	5.0	
	Retention Pond 5		100	300	10.0	17.0	2.0				12	500	5.0	
6	Retention Pond 6		100	300	10.0	17.0	2.0				12	500	5.0	

Noise:

1. All Physical parameters must be input even if manual oversides for volume or area are used.

2. If Slope from Bridity to borrow source is > 20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivity Sheet).

3. Material Types are used for density correction based on material densities in Caterpliar Performance Handbook material density table.

Berm dimensions assume all material removed for pond is used for berm construction.

Sec	ediment/Evaporation Pond Construction/Removal - User Input (cont.)														
			Sedimer	it Ponds			Growth Media			Revegetation	Revegetation		Scanfying		
	Description	Excavating Material		Excavating	Liner	Growth Media	Growth Media Placement	Maximum Fleet Size					Scarify/ Ripping		
	(required)	Condition (select)	Material Type (select)	Equipment Fleet (select)	Type (select)	Material Type (select)	Equipment Fleet (select)	(user override)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Scarify/ Rip? (select)	Fleet (select)		
1	Retention Pond 1	1	Alluvium	Large		Alluvium	Scraper Dozer		Mix 4	None	None	Yes	Large Dozer		
2	Retention Pond 2	1	Alluvium	Large		Alluvium	Scraper Dozer		Mix 4	None	None	Yes	Large Dozer		
3	Retention Pond 3	1	Alluvium	Large		Alluvium	Scraper Dozer		Mix 4	None	None	Yes	Large Dozer		
4	Retention Pond 4	1	Alluvium	Large		Alluvium	Scraper Dozer		Mix 4	None	None	Yes	Large Dozer		
5	Retention Pond 5	1	Alluvium	Large		Alluvium	Scraper Dozer		Mix 4	None	None	Yes	Large Dozer		
6	Retention Pond 6	1	Alluvium	Large		Alluvium	Scraper Dozer		Mix 4	None	None	Yes	Large Dozer		

Notes:

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

6/4/2021 Copyright © 2004 - 2009 SECTS Softman, All Finith Reserved.

Sediment & Drainage Control

#### Closure Cost Estimate Sediment & Drainage Control

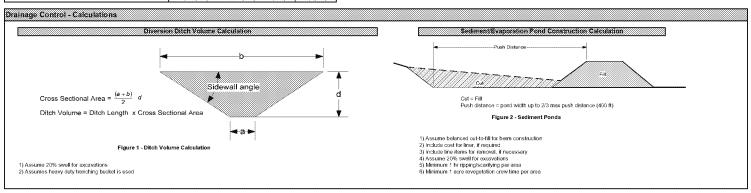
Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm
Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xism
Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

ainage Control - Cost Summary				
ı	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$7,858	\$20,137	N/A	\$27,
Diversion Ditch Liner	\$0	\$0	\$0	
Diversion Ditch Rip-Rap	\$563,962	\$107,433	\$345,233	\$1,016,
Sed Pond Construct/Regrade	\$2,934	\$12,120	N/A	\$15,
Liner Installation	\$0	\$0	\$0	
Sed Pond Cover	\$2,934	\$8,034	N/A	\$10,
Ripping/Scarifying Cost	\$492	\$2,022	N/A	\$2,
Subtotal Earthworks	\$578,180	\$149,746	\$345,233	\$1,073
Diversion Ditch Revegetation	\$3,500	\$1,250	\$9,831	\$14,
Sediment Pond Revegetation	\$924	\$330	\$2,598	\$3,
Subtotal Revegetation	\$4,424	\$1,580	\$12,429	\$18,
TOTALS	\$582,604	\$151,326	\$357.662	\$1,091.



Dive	ersion Ditches - Excevation Costs															
										Liner Ins	italiation			Rip-Rap I	nstallation	
	Description (required)	Diversion Ditch Volume LCY	Diversion Ditch Equipment	Corrected Excavator Productivity LCY/hr	Total Hours	Diversion Ditch Labor Cost 3	Ditch Equipment Cost S	Diversion Ditch Cost S	Total Labor Cost \$	Total Equipment Cost \$	Total Material Cost S	Total Liner Cost	Labor Cost 3	Equipment Cost \$	Material Cost S	Total Cost \$
	Stormwater Ditch - no riprap	71,680	385BL	935	77	\$6,303	\$16,152	\$22,455	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Stormwater Ditch - rip rap lined	17,920	385BL	935	19	\$1,555	\$3,985	\$5,540	\$0	\$0	\$0	\$(	\$563,962	\$107,433	\$345,233	\$1,016,628
		89,600			96	\$7,858	\$20,137	\$27.995	SO	\$0	\$0	\$0	\$563.962	\$107,4331	\$345,233	\$1,016,628

Notes: LCM assumes 20% swell from ditch volume

Div	ersion Ditches - Revegetation Costs					
	Description (required)	Surface Area acres	Revegetation Labor Cost	Revegetation Equipment Cost	Revgetation Material Cost	Total Revegetation Cost
1	Stormwater Ditch - no riprap Stormwater Ditch - rip rap lined	20.00	\$2,800 \$700	\$1,000 \$250	\$7,865 \$1,966	\$11,665 \$2,916
		25.00	\$3,500	\$1,250	\$9,831	\$14,581

	liment/Evaporation Ponds - Construction/F ductivity = Dozer Productivity x Grade Correction			tor (0,75) x M	aterial x Visibi	lity x Job Effi	ciency (0.83)					Earthwork			Lift	ër	
	Description (required)	Regrading Volume cy	Sed/Evap Pond Equipment	Dozing Distance (see above) ft	Uncorrected Dozer Productivity LCY/hr	Grade Correction	Density Correction	Excavating Material	Corrected Productivity LCY/hr	Total Dozer Hours hr	Total Labor Cost S	Total Equipment Cost S	Total Constr/ Regrading Cost \$	Total Labor Cost \$	Total Equipment Cost 3	Total Material Cost S	Total Liner Cost
1	Retention Pond 1	4,933	D10R	100	1,627	1.00	0.79	1.00	800	6	\$489	\$2,020	\$2,509	\$0	\$0	\$0	\$0
2	Retention Pond 2	4.933	D10R	100	1,627	1.00	0.79	1.00	800	6	\$489	\$2,020	\$2,509	\$0	\$0	\$0	\$(
3	Retention Pond 3	4,933	D10R	100	1,627	1.00	0.79	1.00	800	6	\$489	\$2,020	\$2,509	\$0	\$0	\$0	\$0
4	Retention Pond 4	4,933	D10R	100	1,627	1.00	0.79	1.00	800	6	\$489	\$2,020	\$2,509	\$0	\$0	\$0	\$0
	Retention Pond 5	4,933	D10R	100	1,627	1.00	0.79	1.00	800	6	\$489	\$2,020	\$2,509	\$0	\$0	\$0	\$0
6	Retention Pond 6	4,933	D10R	100	1,627	1.00	0.79	1.00	800	6	\$489	\$2,020	\$2,509	\$0	\$0	\$0	\$(
		29,598								36	\$2,934	\$12,120	\$15,054	\$0	\$0	\$0	\$0

2 of 3

6/4/2021 Copyright © 2004 - 2009 SECTS Softman, All Finith Reserved.

Sediment & Drainage Control

ED\_013507\_00000574-00072

## Closure Cost Estimate Sediment & Drainage Control

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan
Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Eata File: SRCE\_Cost\_data-USR\_1\_50semont Copper World\_06032021.xlsm
Cost Eatimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Diversion Ditch Construction	\$7,858	\$20,137	N/A	\$27
Diversion Ditch Liner	\$0	\$0	\$0	
Diversion Ditch Rip-Rap	\$563,962	\$107,433	\$345,233	\$1,016
Sed Pond Construct/Regrade	\$2,934	\$12,120	N/A	\$15
Liner Installation	\$0	\$0	\$0	
Sed Pond Cover	\$2,934	\$8,034	N/A	\$10
Ripping/Scarifying Cost	\$492	\$2,022	N/A	\$2
Subtotal Earthworks	\$578,180	\$149,746	\$345,233	\$1,073
Diversion Ditch Revegetation	\$3,500	\$1,250	\$9,831	\$14
Sediment Fond Revegetation	\$924	\$330	\$2,598	\$3
Subtotal Revegetation	\$4,424	\$1,580	\$12,429	\$18
TOTALS	\$582,604	\$151,326	\$357,662	\$1,091

Sec	liment/Evaporation Ponds - Growth Media	Costs							
					Growth	Media			
	Description (required)	Growth Media Volume cy	Growth Media Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost 3	Total Equipment Cost S	Total Cover Placement Cost \$
1	Retention Pond 1	1,775	631G/D10R/D7R	802	1	2	\$489	\$1,339	\$1,828
2	Retention Pond 2	1,775		802	1	2	\$489	\$1,339	\$1,828
3	Retention Pond 3	1,775		802	1	2	\$489	\$1,339	\$1,828
4	Retention Pond 4	1,775	631G/D10R/D7R	802	1	2	\$489	\$1,339	\$1,828
5	Retention Pond 5	1,775	631G/D10R/D7R	802	1	2	\$489	\$1,339	\$1,828
6	Retention Pond 6	1,775	631G/D10R/D7R	802	1	2	\$489	\$1,339	\$1,828
							\$2,934	\$8,034	\$10,966

ediment/Evaporation Ponds - Revegetation Costs													
Description (required)	Surface Area acres	Long Ripping Distance ft	Ripping/ Scarifying Fleet	Scarifying/ Ripping Hours hrs	Scanfying/ Ripping Labor Costs \$	Scarifying/ Ripping Equipment Cost S	l otal Scarifying/ Ripping Costs S	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revgetation Material Cost S	Total Revegetation Cost S		
1 Retention Pond 1	1.10	300	D10R	1	\$82	\$337	\$419	\$154	\$55	\$433	\$64		
2 Retention Pond 2	1.10	300	D10R	1	\$82	\$337	\$419	\$154	\$55	\$433	\$64		
3 Retention Pond 3	1.10	300	D10R	1	\$82	\$337	\$419	\$154	\$55	\$433	\$64		
4 Retention Pond 4	1.10	300	D10R	1	\$82	\$337	\$419	\$154	\$55	\$433	\$64		
5 Retention Pond 5	1.10	300	D10R	1	\$82	\$337	\$419	\$154	\$55	\$433	\$64		
6 Retention Pond 6	1.10	300	D10R	1	\$82	\$337	\$419	\$154	\$55	\$433	\$64		
	6.60			6	\$492	\$2,022	\$2,514	\$924	\$330	\$2,598	\$3,85		

## Closure Cost Estimate Yards, Etc.

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Estimate Type: Surety

Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Tota
Regrading Cost Cover Placement Cost	\$3,342	\$13,803	N/A	\$1
Cover Placement Cost	\$22,901	\$54,049	N/A	\$7
Growth Media Placement Cost	\$0	\$0	N/A	
Ripping/Scarifying Cost	\$1,793	\$7,407	N/A	9
Subtotal Earthworks	\$28,036	\$75,259		\$10
Revegetation Cost	\$4,760	\$1,700	\$13,371	\$1
TOTALS	\$32,796	\$76,959	\$13,371	\$12

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

¥	arı	ds, Etc User Input				You must fill in	ALL green cell	s and relevant	plue cells in this	section for ea	sti beliding or f	acility	
		Facility Description				Physical			Cover			Growth Media	
		Description (required)	ID Code	Туре	Area acres	Average Flat Area Long Dimension (ripping distance) ft	Regrade Volume (calculated elsewhere) cy	Cover Thickness in	Distance from Cover Borrow Area ft	Slope from Facility to Borrow Area % grade	Growth Media Thickness in	Distance from Growth Media Stockpile ft	Slope from Facility to Stockpile % grade
Г	1	Office and Storage Area Yards		Yard	34.00	1,000	10,000	12	500	5.0			

- Notes

  1. All Physical parameters must be input even if manual overrides for volume or area are used.

  2. if Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)

  3. Assume cover material available adacent to office and storage area yards

  4. Includes regrade volume of 10,000 CY

Yar	Yards, Etc User Input (conf.) You must fill in ALL green cells and relevant blue cells in this section for each building or facility														
			Grading			Cover			Growth Medi	a		6	Revegetation		
						Cover		Growth	Growth						
1		Regrading	Regrading	Regrading	Cover	Placement		Media	Media						
1	Description	Material	Material	Equipment	Material	Equipment	Maximum	Material	Equipment	Maximum					
1	(required)	Condition	Type	Fleet	Type	Fleet	Fleet Size	Type	Fleet	Fleet Size	Seed Mix	Mulch	Fertilizer	Scarify/ Rip?	Ripping Fleet
L		(select)	(select)	(select)	(select)	(select)	(user override)	(select)	(select)	(user override)	(select)	(select)	(select)	(select)	(select)
1	Office and Storage Area Yards	1	Alluvium	Large	Alluvium	Large Truck					Mix 4	None	None	Yes	Large Dozer

1 of 2

Notes:

1. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved

Yards, Etc.

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xism
Cost Estimate Type: Surety

Cost Basis: Southern Nevada - Adjusted for Arizona

	Labor	Equipment	Materials	Totals
Regrading Cost Cover Placement Cost	\$3,342	\$13,803	N/A	\$17
Cover Placement Cost	\$22,901	\$54,049	N/A	\$76
Growth Media Placement Cost	\$0	\$0	N/A	
Ripping/Scarifying Cost	\$1,793	\$7,407	N/A	\$9
Subtotal Earthworks	\$28,036	\$75,259		\$103
Revegetation Cost	\$4,760	\$1,700	\$13,371	\$19
TOTALS	\$32,796	\$76,959	\$13,371	\$123

### Yards, Etc. - Calculations

### Grading Calculations

Average push distance assumed to be 2/3 of the 800 feet maximum from Catepillar Handbook or 400 feet Material assumed to be loose stocklife (1.2 productivity factor) Slope assumed to be 0 to 5% (1.0 productivity factor)

## Cover Volume Calculation

Yard area x cover thickness

### Ripping/Scarifying Calculations

Flat area width = Final flat area + Average long dimensions Number of passes = Flat area width + Grader width

Travel distance = Number of passes x Average long dimensions

Total hours = (Travel distance + Grader productivity) + (Number of passes x Grader maneuver time)

Minimum 1 hr ripping/scarifying per area

## Revegetation

Minimum 1 acre revegetation crew time per area

Yarc	ls, Etc Regrading Costs												
Prod	uctivity = Dozer Productivity x Grade Correction x	Density Con	rection x Operat	or (0.75) x M	*************	ility x Job E	fficiency (0.8)	) x (Slot/Sid	e-by-Side)	,			
	Description (required)	Regrading Volume cy	Dozing Distance (see above) ft	Regrading Fleet	Uncorrected Dozer Productivity cyltir	Grade Correction	Dozing Material	Density Correction	Total Hourly Productivity cyltir	Total Dozer Hours hr	Total Labor Cost \$	Total Equipment Cost \$	Total Regrading Cost \$
1	Office and Storage Area Yards	10,000	400	D10R	501	1.0	1.0	0.79	246	41	\$3,342	\$13,803	\$17,145
		10,000								41	\$3,342	\$13,803	\$17,145

Yar	ards, Etc Cover and Growth Media Costs																
					Cov	er							Growth	Media			
					Number of		Total	Total					Number of		Total	Total	Total
1	Description	Cover	Topsoil	Fleet	Trucks/	Total Fleet	Labor	Equipment		Growth Media	l	Fleet	Trucks/	Total Fleet	Labor	Equipment	Growth Media
1	(required)	Volume	Repacement Fleet	Productivity LCY/hr	Scrapers	Hours	Cost	Cost	Cost	Volume	Growth Media Fleet	Productivity LCY/hr	Scrapers	Hours	Cost	Cost	Cost
		, cy		LIG T/III			a a	Ψ	ą.	Сý		EC 1711			Φ	Φ	Φ
1	Office and Storage Area Yards	54,853	769D/988G/D7R	684	2	80	\$22,901	\$54,049	\$76,950						\$0	\$0	\$0
		54,853				80	\$22,901	\$54,049	\$76,950						\$0	\$0	\$0

2 of 2

Yar	Yards, Etc Scarifying/Revegetation Costs												
	Description (required)	Surface Area acres	Area Long Dimension ft	Ripping/ Scarifying Fieet	Scarifying/ Ripping Hours hrs	Scarifying/ Ripping Labor Costs \$	Scarifying/ Ripping Equipment Cost \$	Total Scarifying/ Ripping Costs	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revgetation Material Cost	Total Revegetation Cost	
1	Office and Storage Area Yards	34.00	1,000	D10R	22	\$1,793	\$7,407	\$9,200	\$4,760	\$1,700	\$13,371	\$19,83	
		34.00			22	\$1,793	\$7,407	\$9,200	\$4,760	\$1,700	\$13,371	\$19,83	

## **Closure Cost Estimate** Waste Disposal

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Waste Disposal - Cost Summary				
	Labor	Equipment	Fees	Totals
Solid Waste - On Site	\$0	\$0	N/A	\$0
Solid Waste - Off Site				\$50,235
Hazardous Materials				\$0
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$50,235

ı	Color Code Nev	
П	User Input - Direct Input	Direct Input
- 1	User Input - Pull Down List	Pull Down Selection
- 1	Program Constant (can override)	Alternate Input
- 1	Program Calculated Value	Locked Cell - Formula or Reference

Waste I	Disposal - User Input - Solid Waste								
						Land	lfill (Bulk) Dis		Dumpster
	Description (required)	ID Code	Waste Type (select)	Disposal Method (select)	Quantity cy	Distance to Landfill ft	Slope to Landfill % grade	of Trucks (user override)	Months Dumpster Rental months
1	Solid Waste Removal		Waste Mgmt & Disposal	Dumpster	1,000				12

### Notes:

- All Physical parameters must be input even if manual overrides for volume or area are used.
   If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet).

Waste	Disposal - User Input - Hazardous Material	S							
		1							
		1							
	Description (required)		Waste	Container	Vacuum Truck Size	Liquid Quantity	Soild Quantity	Travel Distance to Disposal Site	One Way Travel Time to

## Notes:

1. Use Other Demo & Equip Removal Sheet for tank removal

Waste	Disposal - User Input - Hydrocarbon Conta	minated Soils	ı			
			W			Distance to
	(required)	ID Code	Type	Disposal Method	Quantity	Disposal

Notes:
1. Use Yards or Landfills Sheets for bioremediation facility reclamation

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 1 of 2 Waste Disposal

## Closure Cost Estimate Waste Disposal

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_66032021.xlsm
Cost Estimate Type: Surety

Cost Basis: Southern Nevada - Adjusted for Arizona

Waste Disposal - Cost Summary				
	Labor	Equipment	Fees	Totals
Solid Waste - On Site	\$0	\$0	N/A	\$0
Solid Waste - Off Site				\$50,235
Hazardous Materials				\$0
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$0
TOTALS	\$0	\$0	\$0	\$50,235

## Waste Disposal - Assumptions & Calculations

## Solid Waste Disposal

Off site disposal assumes use of average rolloff dumpster [30 cy (m3), 10 ton (tonne)]

On site disposal assumes use of small loader/truck fleet for haulage

Average density for on site disposal = 2,600 lb/cy (1,540 kg/m3)

For on site disposal only 1 truck is required unless total truck hours > 8, only 2 trucks unless total truck hours are > 16

### Hazardous Materials Disposal

Assumes all hazardous materials are known

Enter EITHER solid or liquid quantity each line.

If container type = 55 gallon (200 liter) drum then solid waste hauling costs apply

Average density for solids assumed to be 2,600 lb/cy (1,540 kg/m3)

Vacuum truck sizes: small = 2,200 gal (~8,300 litres), large = 5,000 gal (~19,000 litres)

Vacuum truck on site for 4 hours for each load

## Hydrocarbon Contaminated Soils Disposal

Assumes all hazardous materials are known

On site disposal assumes biopad treatment

Exavation productivity =45 cy./hr (35 m3/hr) (Means Heavy Construction, 2006: 02315-424-0360)

Vaste	Disposal - Solid Waste Disposal										
	Description (required)	Waste Volume cy	Number of Off Site Dumpster Loads	Landfill Fleet Equipment	Landfill Fleet Productivity LCY/hr	Number of Trucks	Total Fleet Hours	Total Dumpster Cost \$	Total Labor Cost \$	Total Equipment Cost \$	Total Waste Disposal Cost \$
1	Solid Waste Removal	1,000	34					\$50,235	\$0	\$0	
		1.000						\$50.235	\$0	SO	

Waste I	Disposal - Hydrocarbon Contaminated Soil	S								
										rotai
	Description			Total Fleet	Treatment	Transport	Disposal	Total Labor	Total Equipment	Waste Disposal
	(required)	Quantity cy	Disposal Equipment Fleet	Hours	Cost \$	Fees \$	Fees \$	Cost \$	Cost \$	Cost \$
					\$0	\$0	\$0	\$0	\$0	\$0

6/4/2021 Copyright © 2664 - 2669 SRCE Software, All Rights Reserved.

Page 2 of 2 Waste Disposal

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm

Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Well Abandonment				
	Labor	Equipment	Materials	Totals
Production, Dewatering, Infiltration Wells	\$42,348	\$78,145	\$7,084	\$127,57
Monitoring Wells	\$0	\$0	\$0	\$1
TOTALS	\$42,348	\$78,145	\$7,084	\$127,57

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

Well seal thickness: Minimum seal above groundwater table:

Production, Dewatering and Ir	nfiltration Well	Closure																								
						Original	Тор	Blank Casing						Grout	Cement	Inert Media	Pump	Pump			Grout +	Grout +		Inert		
		Number				Static	of	Below Top	Type of		Hole	Casing	1	Volume	Volume	Volume	Removal	Removal	Perf	Perf	Cement	Cement	Grout + Cement	Media	Inert	i
Description		of		Average	Depth to First	Water	Slotted	of	Pump	Depth to	Plug	Volume	Perforation	(4.6)	per	per	Labor	Equip	Labor	Equip	Labor	Equip	Material	Labor	Media Equip	Total
(required)	ID Code	Holes	Casing Diam	Depth <sup>(1)</sup>	Water		Casing <sup>(2)</sup>	Screen(2)	(if any)	Pump	Method	per ft	Length (5,47)	Hole	Hole <sup>(b)</sup>	Hole <sup>(7)</sup>	Cost	Cost	Cost	Cost (6)	Cost	Cost	Cost	Cost	Cost	Cost
			in	ft bgs	ft bgs	ft bgs	ft bgs	ft ft	(select)	ft bgs	(select)	cf	ft	cy	cy	cy	\$	\$	\$	\$	\$	\$	\$	\$	\$	, s
1 Dewatering wells		8	12.0	500	200	200	300	100	Submersi	300	Grout + B	a 0.790	250	20.50	0.60	2.90	\$18,360	\$45,264			\$11,052	\$13,261		\$937		
																	\$18,360	\$45,264	\$11,999	\$19,398	\$11,052	\$13,261	1 \$7,084	\$937	\$222	\$127,577

[1] For previously abandoned holes enter "0" for depth
[2] Wells abandoned per Nevada Administrative Code (NAC 534.420). Hole grouted and perforated from bottom to 50 feet (15.24m) above the top of the screen, or first water encountered or original static water level, depending on vertical hydraulic gradient and well construction parameters. Inert media (cuttings or alluvium) used from top of grout to top seal.
[3] Perforation length = amount of blank casing below first water (for confined aquifers) or predicted recovered water table (unconfined aquifers) + 50 feet (15.24m) of blank casing above water table
[4] Assumes 50' (15.24m) sanitary seal at top of hole. Therefore, perforation and grouting only required to bottom of sanitary seal.
[5] Assumes 100% loss to formation for grout (abandonite) for screened and perforated sections.

(6) Assumes 20' (6m) top seal of cement in casing only. See note 4. (7) Inert material is cuttings or alluvium sourced locally.

(8) Includes perforation tool wear cost/ft of perforation (see Productivty Sheet).
(9) See Productivity Sheet for hourly production. Minimum 1 hr per hole + fixed hours per hole for move and setup. If no perforation required, use standard drill rig.

(10) See Productivity Sheet for hourly production. Minimum 1 hr per hole.

Description   Number of Casing Average of Plug   Volume of (required)   ID Code   Holes   Diam   Holes   In the property   Holes   In the property   Holes   Holes   In the property   Holes   Holes										-			1	T				Ionitoring Well Closure
1	aterial quip Tota	Inert Material Equip Cost <sup>(7)</sup> \$	Material Labor	Cement Material	Cement Equip	Cement Labor	Inert Media Hours/	Grouting Hours/	Backfill Volume	Volume per	Volume/	Volume	Plug Method	of Screen <sup>(1)</sup>	Depth	 of	ID Code	
1 1000	\$0	3 3	\$0	\$0	\$0	\$0							none					1

Wells abandoned per NAC 534.420 with bentonite grout placed to 50 feet above the top of the screen (see note 1).

(1) Assumes top of screen is at or above the static water level (in unconfined aquifers) or the depth of first water encountered (in confined aquifers). (2) Assumes 25% loss to formation for grouting

(3) Grouting only required to 50' (15.24m) above the top of screen because monitor wells are constructed with a seal in the annular space.

(4) Assumes top 20' (6m) plugged with cement.

(6) See Productivity Sheet for hourly production. Minimum 1 hr per hole + fixed hours per hole for move and setup (see Productivty Sheet).

(7) See Productivity Sheet for hourly production. Minimum 1 hr per hole + fixed hours per hole for move and setup (see Productivty Sheet).

All monitoring wells remain in place for long term monitoring under APP permit

6/4/2021 Copyright © 2604 - 2609 SRCE Software. All Rights Reserved Page 1 of 2 Well Abandonment Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

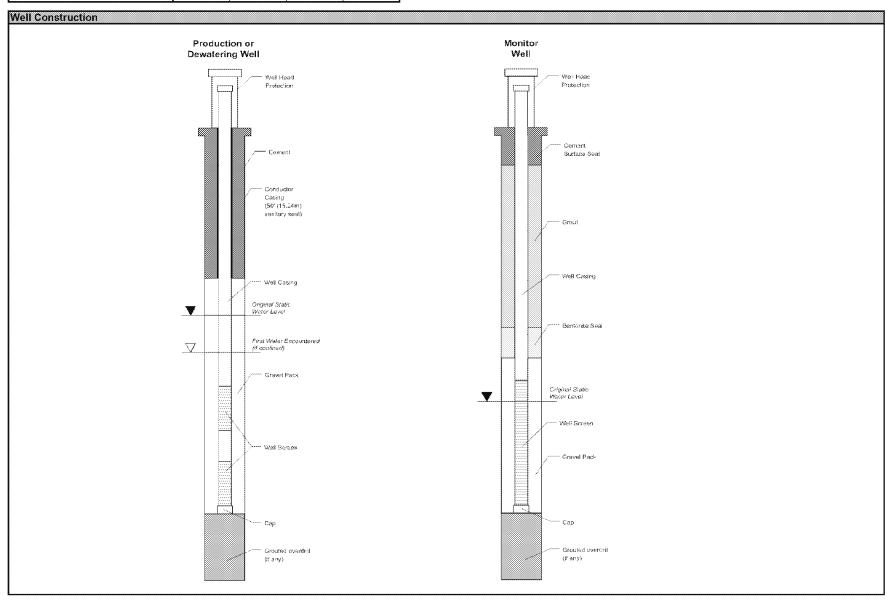
Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Well Abandonment				
	Labor	Equipment	Materials	Totals
Production, Dewatering, Infiltration Wells	\$42,348	\$78,145	\$7,084	\$127,57
Monitoring Wells	\$0	\$0	\$0	\$
TOTALS	\$42,348	\$78,145	\$7,084	\$127,57



6/4/2021 Copyright © 2004 - 2009 SRCE Software. All Rights Reserved.

Page 2 of 2 Well Abandonment

1 of 2

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1
Cost Data: User Data
Cost Data Flie: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

		Labor	Equipment	Materials	Totals
Fence Removal		\$0	\$0	N/A	9
Fence Installation		\$94,836	\$15,755	\$25,754	\$136,3
Culvert & Buried Pipe Removal		\$922,530	\$260,820	N/A	\$1,183,3
Surface Pipe Removal		\$0	\$0	N/A	
Power Lines		\$425,916	N/A	N/A	\$425,9
Substations/Transformers		\$58,997	N/A	N/A	\$58,9
Rip-rap, rock lining, gabions		\$0	\$0	\$0	
Other Costs		\$0	\$0	\$0	
	TOTALS	\$1,502,279	\$276.575	\$25.754	\$1,804.6

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

Fenc	e Removal			You must fill in A	LL green and blue	cells	
	Description				Costs Labor	Equipment	Total
	(required)	ID Code	Length ft	Type (select type)	Cost \$	Cost \$	Cost \$
				•	\$0	\$0	\$0

Notes:

Fenc	Fence Installation You must fill in ALL green and blue cells input Costs											
		Costs										
	Description				Labor	Equipment	Material	Total				
1	(required)	ID Code	Length	Type	Cost	Cost	Cost	Cost				
			ft	(select type)	\$	\$	(\$)	\$				
1	Peach/Eigin Pit Fence		21445	Barbed 5-strand	\$67,123	\$11,151	\$18,228	\$96,502				
2	Copper World Pit		8854	Barbed 5-strand	\$27,713	\$4,604	\$7,526	\$39,843				
					\$94,836	\$15,755	\$25,754	\$136,345				

Notes:

Culv	Culvert & Burled Pipe Removal You must fill in ALL green and blue cells											
				Input			Costs					
	Description					Labor	Equipment	Total				
	(required)	ID Code	Length	Type	Location	Cost	Cost	Cost				
			rt	(select type)	(select)	\$	\$	\$				
1	Water Pipes through utility corridor		66000	24 in (600 mm) Di	Off site	\$882,420	\$249,480	\$1,131,900				
2	Haul Road Culverts		3000	24 in (600 mm) Di	On site	\$40,110	\$11,340	\$51,450				
						\$922,530	\$260,820	\$1,183,350				

Notes: Haul road culverts assume 40' of pipe left in place to maintain road for maintenance access Access road culverts assume 4 per mile for 12.5 miles averaging 40 feet in length each

6/4/2021 Copyright 60 2004 - 2009 SRCE Software, All Rights Reserved.

Misc. Costs

2 of 2

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1
Cost Data: User Data
Cost Data Flie: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

		Labor	Equipment	Materials	Totals
Fence Removal		\$0	\$0	N/A	
Fence Installation		\$94,836	\$15,755	\$25,754	\$136,3
Culvert & Buried Pipe Removal		\$922,530	\$260,820	N/A	\$1,183,
Surface Pipe Removal		\$0	\$0	N/A	
Power Lines	Г	\$425,916	N/A	N/A	\$425,9
Substations/Transformers	Г	\$58,997	N/A	N/A	\$58,
Rip-rap, rock lining, gabions Other Costs		\$0	\$0	\$0	
Other Costs		\$0	\$0	\$0	
	TOTALS	\$1,502,279	\$276,5751	\$25,754	\$1.804.

Surfa	ice Pipe Removal			You must fill in A	LL green and blue	cells		
	Description			Input		Labor	Costs Equipment	Total
	(required)	ID Code	Length ft	Type (select type)	Location (select)	Cost \$	Cost \$	Cost \$
						\$0	\$0	\$0

Notes:

Power Line and Substation Removal You must fill in ALL green and blue cells											
				Input				Costs		Cost Brea	kdown
	Description		Power Line	Power Line	Number of		Power Line	Substation		Labor	Equipment
1	(required)	ID Code	Length	Type	Substations	Location	Removal	Removal	Total Cost	Cost	Cost
			miles	(select)	#	(select)	\$	\$	\$	\$	\$
1	Powerline through utility corridor		9.1	Single Pole	1	Off-site	\$425,916	\$58,997	\$484,913	\$96,983	\$387,930
							\$425,916	\$58,997	\$484,913	\$96,983	\$387,930

Notes: If substation owned by operator, use Other Demo & Equipment Removal sheet
User may need to add line Items in Foundations & Buildings for substation slab demolfion and fence removal
Labor/Equipment costs assume approximately 80% of cost are equipment and 20% are labor related costs

Rip-F	₹ap & Rock Lining			You must fill in A	LL green and blue	cells		
B0000000000	Paradollar.		Input			Co	sts	
	(required)	ID Code	Area	Туре	Cost	Cost	Cost	Cost
L	·		S.Y.	(select type)	\$	\$	\$	\$
					\$0	\$0	\$0	\$0

Notes:

6/4/2021 Copyright 60 2004 - 2009 SRCE Software, All Rights Reserved.

Misc. Costs

### Closure Cost Estimate Monitoring

1 of 2

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Total of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xism
Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Reclamation Monitoring & Maintenance - Cost	Summary			
	Labor	Equipment	Lab & Materials	Totals
Revegetation Maintenance	\$15,716	\$5,613	\$44,146	\$65,475
Erosion Maintenance	\$3,898	\$11,694	N/A	\$15,592
Reclamation Monitoring	\$119,432	\$4,723	N/A	\$124,155
Subtotal Reclamation Monitoring	\$139,046	\$22,030	\$44,146	\$205,222
Water Quality Monitoring	\$0	\$0	\$0	\$0
TOTAL MONITORING	\$139,046	\$22,030	\$44,146	\$205,222

Reclamation Maintenance								
Description	Total Revegetation Surface Area (1,2) acres	% Area Requiring	Seed Mix (select)	Area Requiring Reseeding acres	Seed \$/acres	Labor \$/acres	Equipment \$/acres	Totals \$
Revegetation Maintenance	1,123	10%	Mix 4	112.3	\$393.25	\$140.00	\$50.00	
Labor								\$15,716
Equipment								\$5,613
Materials								\$44,146
Cost/Acre								\$583
							Subtotal	\$65,475

Notes: 1) Surface area is NOT the same as footprint disturbance area typically used for permitting purposes.

	Total Volume Growth Media cy	% Volume Requiring Maintenance	Average Growth Media Placement Cost \$/CY	Volume Requiring Replacement Cy	Labor (assume: 25%) \$/acres	Equipment (assume: 75%) \$/acres	Total \$
Erosion Maintenance	103,255	10%	\$1.51	10,326	\$3,898.00	\$11,694.00	\$15,592

Notes:

Reclamation Monitoring						
Description	Hrs/Day	Days/Year	Number of Years	Rate S/hr		
Field Work						
Field Geologist/Engineer	8	8	5	\$156.79		\$50,173 \$45,373
Range Scientist	8	8	5	\$141.79		\$45,373
Reporting						
Field Geologist/Engineer	4	4	5	\$156.79		\$12,543
Range Scientist	4	4	5	\$141.79		\$11,343
					Subtotal	\$119,432
Travel						
	Hrs/Trip hr	Trips/Year	Years	Truck Cost S/hr		
Travel	4	8	5	\$29.52		\$4,723
					Subtotal	\$4,723

Notes: Monitoring assumes 1 Field Geologist/Engineer and 1 Range scientist per trip, 4 trips per year, 2 days each trip
Travel data assumes 1 trucks per trip, half day for travel each way, 4 trips per year

6/4/2021 Copyright © 2004 - 2000 SECS Software, All Fields Reserved.

Monitoring

### Closure Cost Estimate Monitoring

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Total of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xism
Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Reclamation Monitoring & Maintenance - Cost	Summary			
	Labor	Equipment	Lab & Materials	Totals
Revegetation Maintenance	\$15,716	\$5,613	\$44,146	\$65,475
Erosion Maintenance	\$3,898	\$11,694	N/A	\$15,592
Reclamation Monitoring	\$119,432	\$4,723	N/A	\$124,155
Subtotal Reclamation Monitoring	\$139,046	\$22,030	\$44,146	\$205,222
Water Quality Monitoring	\$0	\$0	\$0	\$0
TOTAL MONITORING	\$139,046	\$22,030	\$44,146	\$205,222

and Rock Sample A	,			l .											I
Description	Samples	Events/Year	No. Years	First Sample Year closure year	No. of Samplers	Days/Event	Hrs/Day	Analysis Cost	Supplies	Lab Cost	Material Cost	Equipment Cost	Labor Cost	Cost	Comments
	#			(1-100)				\$/sample	\$/sample	\$	\$	\$	s	s	
														\$0	
														\$0	)
														\$0	
			l	l										\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
														\$0	
	T			l				1						\$0	
	†							·						\$0	
	1			1										\$0	
														\$0	)
	<u> </u>			<u> </u>						\$0.00	\$0.00	\$0.00	\$0.00		

2 of 2

Notes: Sampling labor cost = No. Samplers x Years x Events/year x Days/event x Hour/Day x Labor Rate Sampling equipment costs include 1 pickup truck for every two samplers

Ground & Surface Water & Pump Costs	fonitoring				
Description	No. of units		Years		Cost \$
Pump (purchased)		Replacement period (yrs):			s
	·		Subtot	al Field Work	

Notes: Replacement period = frequency of pump replacement

Reporting				
Description	Hrs/Event	Rate S/hr	Cost S	Γ
Field Geologist/Engineer				1
	S	ubtotal Reporting		l

Notes: All sampling and reporting performed under APP permit

6/4/2021 Copyright © 2004 - 2009 SECS Coffeen, All Fields Reversed.

Monitoring

# **Closure Cost Estimate** Constr. Mgmt

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Construction Management & Road Mainte	enance - Cost S	Summary		
	Labor	Equipment	Materials	Totals
Construction Management	\$551,656	\$104,612	N/A	\$656,268
Construction Support		\$42,684		\$42,684
Road Maintenance	\$279,844	\$602,721	\$19,879	\$902,444
TOTAL CONSTRUCTION MANAGEMENT	\$831,500	\$750,017	\$19,879	\$1,601,396

		Constr	uction Manager	nent Staff			
Description	Duration mo.	Hours/ Month hr.	Number of Supervisors	Supervisor Rate \$/hr	Labor Cost \$	Equipment Cost <sup>(1)</sup> \$	Totals \$
Active Reclamation	12	160	2	\$135.21	\$519,206	\$98,458	\$617,66
Monitoring & Maintenance	60	4	1 1	\$135.21 Total Staff	\$32,450 <b>\$551,656</b>	\$6,154 <b>\$104,612</b>	\$38,60 <b>\$656,26</b>
				***************************************			
Construction Manageme	nt Support						
Construction Manageme	nt Support  Duration mo.	Number of Units		Rental Rate \$/mo	Generator Cost \$/mo	Equipment Cost <sup>(1)</sup> \$	Totals \$
Description Temporary Office Rental	Duration			Rate	Cost	Cost <sup>(1)</sup>	
Description	<b>Duration</b> mo.			Rate \$/mo	Cost \$/mo	Cost <sup>(1)</sup> \$	\$

Description	Fleet Size (select)	Number	Duration mo.	Hours/ Month hr.	Labor Cost \$	Equipment Cost \$	Totals \$
Active Reclamation				·			
Water Truck	Large	1	12	160	\$118,157	\$219,398	\$337,55
Grader	Large	1	12	160	\$156,787	\$375,264	\$532,05
Monitoring & Maintena	ince						
Water Truck					\$0	\$0	\$(
Grader	Medium	1	60	1	\$4,900	\$8,059	\$12,959
Description	Gallons/ Day	Days/ Month	Duration mo.	Cost/ Gallon \$			Totals \$
Water Fees							
Water Fees	100000	22	12	0.00			\$19,879

Notes: 1) Supervisor equipment = pickup truck
Final reclamation assumed completed in 12 months
Periodic (once per year) road maintenance for 5 years
Water cost assumes \$3/AF supply well cost plus \$243/AF pumping cost = \$0.000753/gal

6/4/2021 Copyright © 2004 - 2009 SRCE Suftware, All Rights Reserved.

1 of 1 Constr. Mgmt

## **Closure Cost Estimate** Labor Rates

Labor R
Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan
Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User Data
Cost Data: User Data
Cost Bats: Southern Nevada - Adjusted for Arizona

Calor Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

ZONE ADJUSTMENTS			
Cost Basis/Project Region	Southern Nevada - Adjusted for Arizona		alda, Lincoln and Nye counties - adjusted for Pima County, AZ
Power Equipment Operators	20-40 miles	\$0.00	
Truck Drivers	30-50 miles	\$0.00	
Laborers	30-50 miles	\$0.00	
INDIRECT COSTS			
Unemployment (%)	3.00%		
Retirement/SS/Medicare (%)	7.65%		
Workman's Compensation (%)	7.60%		
Other indirects			
State Payroll Tax (13),(15),(17),(			
·			
Total Other Indirects	0.00%		

EQUIPMENT TYPE (1) OR JOB DESCRIPTION	Labor Group	Base Rate (\$/hr)	Zone Adjustment (\$/hr)	Hourly Wage (\$/hr)	Fringe (\$/hr)	Retirement/ Medicare (\$/hr)	Unemployment Insurance (\$/hr)	Workman's Compensation (\$/hr)	Other Indirect Costs (\$/hr)	Total (\$/hr)
Equipment Operators (	\$/hr) (2)	,								
Bulldozers										
D6R	Group 8A	\$48.05	\$0.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.5
D6R w/ Winch					\$24.70					
D7R	Group 8A	\$48.05	\$0.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.5
D8R D9R	Group 8A Group 8A	\$48.05 \$48.05	\$0.00 \$0.00	\$48.05 \$48.05	\$24.70 \$24.70	\$1.44 \$1.44	\$3.68 \$3.68	\$3.65 \$3.65	\$0.00 \$0.00	\$81.5 \$81.5
D10R	Group 8A	\$46.05	50.00 80.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.5
D11R	Group 8A	\$46.05	50.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.5
Wheeled Dozers										
824G	1	,			\$24.70					
834G					\$24.70					
844					\$24.70					
854G					\$24 70					
Motor Graders										
120H	Group 10	\$48.17	\$0.00	\$48.17	\$24.70	\$1.45	\$3.69	\$3.66	\$0.00	\$81.6
14G/H	Group 10	\$48.17	\$0.00	\$48.17	\$24.70	\$1.45	\$3.69	\$3.66	\$0.00	\$81.6
16G/H	Group 18	\$48.17	\$0.00	\$48.17	\$24.70	\$1.45	\$3.69	\$3.66	\$0.00	\$81.6
24M		1			\$24.70					
Track Excavators										
312C	Group 12A Group 12A	\$48,34	\$0.00	\$48.34	\$24.70	\$1.45	\$3.70	\$3.67	\$0.00	\$81.8
320C	Group ZA	\$48.34 \$48.34	\$0.00	\$48.34	\$24.70 \$24.70	\$1.45	\$3.70	\$3.67	\$0.00	\$81.8
325C 330C	Group 12A Group 12A	\$48.34	\$0.00 \$0.00	\$48.34 \$48.34	\$24.70	\$1.45 \$1.45	\$3.70 \$3.70	\$3.67 \$3.67	\$0.00 \$0.00	\$81.8 \$81.8
345B	Group 12A	\$48.34	\$0.00	\$48.34	\$24.70	\$1.45	\$3.70	\$3.67	\$0.00	\$81.8
365BL	Group En	<del></del>	90.00	ψτο.54	\$24.70	ψ1.43	ψ3.70	\$3.07	φυ.συ	φ01.0
385BL	Group 12A	\$48.34	\$0.00	\$48.34	\$24.70	\$1.45	\$3.70	\$3.67	\$0.00	\$81.8
Scrapers		-								
631G	Group 8A	\$48.05	\$0.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.5
637G	Group 8A	\$48.05	\$0.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.5
Wheeled Loaders										
924G	Group 8A	\$48.05	\$0.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.5
928G	Group 8A	\$48.05	\$0.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.5
950G	Group 8A	\$48.05	\$0.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.5
966G	Group 8A	\$48.05	\$0.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.5
972G 980G	Group 8A	\$48.05 \$48.05	\$0.00 \$0.00	\$48.05 \$48.05	\$24.70 \$24.70	\$1.44 \$1.44	\$3.68 \$3.68	\$3.65 \$3.65	\$0.00 \$0.00	\$81.5 \$81.5
988G	Group 8A Group 10	548.17	\$0.00	\$48.17	\$24.70 \$24.70	\$1.44	\$3.69	\$3.66	\$0.00	\$81.6
990	CHOOD ID	940 1	30.06	Φ40.17	\$24.70	\$1.43	<b>\$3.08</b>	93.00	\$0.00	\$01.0
992G	Group 10	\$48.17	\$0.00	\$48,17	\$24.70	\$1.45	\$3.69	\$3.66	\$0.00	\$81.6
994D		1		*	\$24.70		*****	*	*****	*****
L2350					\$24.70					
Shovels										
PC2000					\$24.70					
PC3000					\$24.70					
PC4000		1			\$24.70					
PC5500 PC8000	ļ	4			\$24.70 \$24.70					
		1			924.10					
Hydraulic Hammers	<del></del>									
H-120 (fits 325) H-160 (fits 345)	4									
H-180 (fits 365/385)	4									
Demolition Shears	1									
S340 (fits 322/325/330)	T									
S365 (fits 330/345)	-									
S390 (fits 365/385)	1									
Demolition Grappies										
G315 (fits 322/325)	T									
	-1									
G320 (fits 325/330)	1									

1 of 3

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

## **Closure Cost Estimate** Labor Rates

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Calor Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

	Southern Nevada	1	
	Adjusted for		
Cost Basis/Project Region	Arizona	Clark, Esmer	alda, Lincoln and Nye counties - adjusted for Pima County, AZ
Power Equipment Operators	20-40 miles	\$0.00	
Truck Drivers	30-50 miles	\$0.00	1
Laborers	30-50 miles	\$0.00	
INDIRECT COSTS			
Unemployment (%)	3.00%		
Retirement/SS/Medicare (%)	7.65%		
Workman's Compensation (%)	7.60%	1	
Other Indirects			
State Payroll Tax (13),(15),(17),(1			
Total Other Indirects	0.00%	3	

Other Equipment										
420D 4WD Backhoe	Group 12A	\$46,341	\$0.00I	\$48.34	\$24.701	\$1.45	\$3.70	\$3.67	\$0.00	\$81.86
428D 4WD Backhoe	Group 12A	\$48.34	\$0.00	\$48.34	\$24.70	\$1.45	\$3.70	\$3.67	\$0.00	\$81.86
CS533E Vibratory Roller	Group 12A	\$48.34	\$0.00	\$48.34	\$24.70	\$1.45	\$3.70	\$3.67	\$0.00	\$81.8
CS633E Vibratory Roller					\$24.70					
CP533E Sheepsfoot Compactor					\$24.70					
CP633E Sheepsfoot Compactor					\$24.70					
Light Truck - 1.5 Ton					\$24.70					
Supervisor's Truck					\$24.70					
Flatbed Truck				8	\$24.70				<u>-</u>	
Air Compressor + tools	Group 1	\$44.99	\$0.00	\$44.99	\$24.70	\$1.35	\$3.44	\$3.42	\$0.00	\$77.90
Welding Equipment	Group 8A	\$48.05	\$0.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.52
Heavy Duty Drill Rig	Group *	\$44.99	\$0.00	\$44.99	\$24.70	\$1.35	\$3.44	\$3.42	\$0.00	\$77.90
Pump (plugging) Drill Rig	Group 1	844.99	\$0.00	\$44.99	\$24.70	\$1.35	\$3.44	\$3.42	\$0.00	\$77.90
Concrete Pump					\$24.70					
Gas Engine Vibrator	Group 8A	\$48.05	\$0.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.52
Generator 5KW					\$24.70					
HDEP Welder (pipe or liner)					\$24.70					
5 Ton Crane	Group 8A	\$48.05	\$0.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.52
20 Ton Crane	Group 8A	\$48.05	\$0.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.52
50 Ton Crane	Group 8A	\$48.05	\$0.00	\$48.05	\$24.70	\$1.44	\$3.68	\$3.65	\$0.00	\$81.52
120 Ton Crane				8	\$24.70					

L	٠.
INOIE	S:

(1) Equipment Type: Catepilar model or equivalent LeTourneau
(2) Equipment Operator Source: (3) E 6v20200013 000003300
(3) Zone Basis: 6v001.des/vegae/Cdy/Hai/

Truck Drivers (\$/hr) (4)										
725	Dump Truck Driver	\$29.45	\$0.00	\$29.45	\$26.72	\$0.88	\$2.25	\$2.24	\$0.00	\$61.54
730	Dump Truck Driver	\$29.45	\$0.00	\$29.45	\$25.72	\$0.88	\$2.25	\$2.24	\$0.00	\$61.54
735	Dump Truck Driver	\$29.45	\$0.00	\$29.45	\$26.72	\$0.88	\$2.25	\$2.24	\$0.00	\$61.54
740	Dump Truck Driver	\$29.45	\$0.00	\$29.45	\$26.72	\$0.88	\$2.25	\$2.24	\$0.00	\$61.54
769D	Dump Truck Driver	\$29.45	\$0.00	\$29.45	\$26.72	\$0.88	\$2.25	\$2.24	\$0.00	\$61.54
773E					\$25.72					
777D	Dump Truck Driver	\$29.45	\$0.00	\$29.45		\$0.88	\$2.25	\$2.24	\$0.00	\$61.54
785C					\$26.72					
793C					\$26.72					
797B					\$25.72					
613E (5,000 gal) Water Wagon		\$29.45	\$0.00	\$29.45	\$26.72	\$0.88	\$2.25	\$2.24	\$0.00	\$61.54
621E (8,000 gal) Water Wagon		\$29.45	80.00	\$29.45		\$0.88	\$2.25	\$2.24	\$0.00	\$61.54
777D Water Truck					\$26.72					
785C Water Truck					\$25.72					
Dump Truck (10-12 yd3 )	Dump Truck Driver	\$29.45	\$0.00	\$29.45	\$26.72	\$0.88	\$2.25	\$2.24	\$0.00	\$61.54

(4) Truck Driver Source: (2-8-1)(2-30-2)(2-30-

6/4/2021 Copyright © 2004 - 2009 SRCE Software. All Rights Reserved.

Labor Rates 2 of 3

## **Closure Cost Estimate** Labor Rates

Labor R
Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan
Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User Data
Cost Data: User Data
Cost Bats: Southern Nevada - Adjusted for Arizona

Calor Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

	Southern Nevada		
	Adjusted for		
Cost Basis/Project Region	Arizona	Clark, Esmer	alda, Lincoln and Nye counties - adjusted for Pima County, AZ
Power Equipment Operators	20-40 miles	\$0.00	
Truck Drivers	30-50 miles	\$0.00	1
Laborers	30-50 miles	\$0.00	
INDIRECT COSTS			
Unemployment (%)	3.00%		
Retirement/SS/Medicare (%)	7.65%		
Workman's Compensation (%)	7.60%	1	
Other Indirects			
State Payroll Tax (13),(15),(17),(1			
		1	
Total Other Indirects	0.00%	1	

<del></del>									
Laborers (\$/hr) (6,7)									
General Laborer	Group 1	\$27.65	\$0.00	\$27.65 \$26.79	\$0.83	\$2.12	\$2.10	\$0.00	\$59.49
Skilled Laborer	Group 2	\$27.86	\$0.00	\$27.86 \$26.79	\$0.84	\$2.13	\$2.12	\$0.00	\$59.73
Driller's Helper	Group 2	\$27.86	\$0.00	\$27.86 \$26.79	\$0.84	\$2.13	\$2.12	\$0.00	\$59.73
Rodmen (reinforcing concrete)	Group 2	\$27.86	\$0.00	\$27.86 \$26.79	\$0.84	\$2.13	\$2.12	\$0.00	\$59.73
Cement finisher	Group 2	\$27.86	\$0.00	\$27.86 \$26.79	\$0.84	\$2.13	\$2.12	\$0.00	\$59.73
Carpenter		\$46.15	\$0.00	\$46.15 \$16.81	\$1.38	\$3.53	\$3.51	\$0.00	\$71.38

NOTES:		
(6) Laborer Source:		8
(7) Carpenter Source:	IRP1977-003 7/1/2019	8
(0) Zono Bosio:	ac Weese Challen	æ

(8) Zone Basis: From: La								
Project Management and Te	chnical Labor (\$/hr) (9)							
Project Manager	\$91.69	\$91.69	\$26.79	\$2.75	\$7.01	\$6.97	\$0.00	\$135.
Foreman	\$84.94	\$84.94	\$26.79	\$2.55	\$6.50	\$6.46	\$0.00	\$127.
Field Geologist/Engineer	\$109.94	\$109.94	\$26.79	\$3.30	\$8.41	\$8.36	\$0.00	\$156
Field Tech/Sampler	\$76.11	\$76.11	\$26.79	\$2.28	\$5.82	\$5.78	\$0.00	\$116
Range Scientist	\$97.25	\$97.25	\$26.79	\$2.92	\$7.44	\$7.39	\$0.00	\$141
Senior Planning Engineer		8	\$26.79					
Project Engineer			\$26.79					
Mechanic/Fitter			\$26.79					
			\$26.79					
			\$26.79					
			\$26.79					
			\$26.79					

NOTES:										
	R5 Mesos 2020 Q2 to 13									
(9) Foreman Source:	(9) Foreman Source (95 Meters 2020 Qz (2) 21 (2) 21 (20)									
(9) Techical Labor Source:	Wood pic 2026	d pic 2020								
Other Labor Source:										
Other Labor Source:										
†Additional User Markups (These are added by the user to the										
base rate to account for site-specific										
conditions or corporate requirements)										

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Equipment Costs
Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1 Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Color Code Key							
User Input - Direct Input	Direct Input						
User Input - Pull Down List	Pull Down Selection						
Program Constant (can override)	Alternate Input						
Program Calculated Value	Locked Cell - Formula or Reference						

160 hrs month Monthly Rental Basis:

EQUIPMENT RENTAL RA	Monthly Owner/Rental Rate	Equipment Hourly Rate	Fuel/Lube/ Wear	Total Rate
Bulldozers				
D6R	\$10,605.00	\$66.28	\$29.37	\$95.6
D6R w/ Winch		, , , , , , , , , , , , , , , , , , , ,	\$16.56	\$16.5
D7R	\$11,575.00	\$72.34	\$32.69	\$105.0
D8R	\$22,030.00	\$137.69	\$43.96	\$181.6
D9R	\$29,580.00	\$184.88	\$62.60	\$247.4
D10R	\$41,000.00	\$256.25	\$80.42	\$336.6
D11R	\$64,000.00	\$400.00	\$117.20	\$517.2
Wheeled Dozers		<del>'</del>		
824G			\$28.49	\$28.4
834G			\$33.39	\$33.3
844			\$39.75	\$39.7
854G			\$50.35	\$50.3
Motor Graders				
120H	\$9,790.00	\$61.19	\$31.65	\$92.8
14G/H	\$14,075.00	\$87.97	\$46.36	\$134.3
16G/H	\$22,000.00	\$137.50	\$57.95	\$195.4
24M	\$22,000.00	Ψ107.00	\$41.08	\$41.0
Track Excavators			\$11.00	<b>V</b>
	\$5,380,00	#22.02	640.07	¢47.0
312C		\$33.63	\$13.37	\$47.0
320C 325C	\$6,070.00	\$37.94	\$22.29	\$60.2
	\$8,490,00	\$53.06	\$28.04	\$81.1
330C	\$11,015.00	\$68.84	\$33.96	\$102.8
345B	\$14,565.00	\$91.03	\$42.36	\$133.3
365BL 385BL	600 0Z0 00	\$143.44	\$34.98 \$66.33	\$34.9 \$209.7
	\$22,950.00	\$145.44	φ00.33	<b>ΦΖ</b> U9.7
Scrapers			222.22	
631G	\$25,295.00 \$35,000.00	\$158.09	\$69.83	\$227.9
637G	\$30,000.00	\$218.75	\$100.33	\$319.0
Wheeled Loaders		·		
924G	\$4,850.00	\$30.31	\$20.88	\$51.1
928G	\$5,300.00	\$33.13	\$23.63	\$56.7
950G	\$7,750.00	\$48.44	\$29.30	\$77.7
966G	\$11,115.00	\$69.47	\$38.65	\$108.1
972G	\$14,075.00	\$87.97	\$43.56	\$131.5
980G	\$14,075,00	\$87.97	\$49.28	\$137.2
988G	\$23,460.00	\$146.63	\$70.36	\$216.9
990			\$45.05	\$45.0
992G	\$63,000.00	\$393.75	\$132.34	\$526.0
994D			\$95.40	\$95.4
L2350			\$174.90	\$174.9
Shovels				
PC2000			\$98.05	\$98.0
PC3000			\$132.50	\$132.5
PC4000			\$185.50	\$185.5
PC5500			\$315.35	\$315.3
PC8000			\$394.85	\$394.8
Hydraulic Hammers				
H-120 (fits 325)	\$5,810.00	\$36.31	\$5.62	\$41.9
H-160 (fits 345)	\$12,240.00	\$76.50	\$10.98	\$87.4
H-180 (fits 365/385)	\$16,520.00	\$103.25	\$13.01	\$116.2
Demolition Shears				
S340 (fits 322/325/330)				\$0.0
S365 (fits 330/345)				\$0.0
\$390 (fits 365/385)				\$0.0
Demolition Grapples				Ψ0.0

Equipment Costs
Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1 Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm

G315 (fits 322/325)				\$0.00
G320 (fits 325/330)				\$0.00
G330 (fits 345/365)				\$0.00
Other Equipment				
420D 4WD Backhoe	\$2,700.00	\$16.88	\$16.64	\$33.52
428D 4WD Backhoe	\$3,450,00	\$21.56	\$16.51	\$38.08
CS533E Vibratory Roller	\$8,140,00	\$50.88	\$9.94	\$60.81
CS633E Vibratory Roller			\$12.59	\$12.59
CP533E Sheepsfoot Compactor			\$9.94	\$9.94
CP633E Sheepsfoot Compactor			\$12.59	\$12.59
Light Truck - 1.5 Ton	\$4,044.00	\$25.28	\$4.25	\$29.52
Supervisor's Truck	\$3,634,00	\$22.71	\$2.92	\$25.64
Flatbed Truck	\$4,044.00	\$25.28	\$13.97	\$39.24
Air Compressor + tools	\$5,749.00	\$35.93	\$2.65	\$38.58
Welding Equipment	\$3,036.00	\$18.98	\$5.30	\$24.28
Heavy Duty Drill Rig	\$32,802.00	\$205.01	\$31.80	\$236.81
Pump (plugging) Drill Rig	\$32,802,00	\$205.01	\$26.50	\$231.51
Concrete Pump	\$8,470,00	\$52.94	\$26.50	\$79.44
Gas Engine Vibrator	\$554,00	\$3.46	\$2.65	\$6.11
Generator 5KW	\$1,652,00	\$10.33	\$3.98	\$14.30
HDEP Welder (pipe or liner)	\$8,778.00	\$54.86	\$5.30	\$60.16
5 Ton Crane	\$7,779.00	\$48.62	\$7.95	\$56.57
20 Ton Crane	\$11,924.00	\$74.53	\$10.60	\$85.13
50 Ton Crane	\$11,924.00	\$74.53	\$12.46	\$86.98
120 Ton Crane			\$13.78	\$13.78
Frucks				
725	\$15,300,00	\$95.63	\$38.68	\$134.30
730	\$15,300,00	\$95.63	\$40.00	\$135.63
735	\$15,300,00	\$95.63	\$54.27	\$149.90
740	\$15,300.00	\$95.63	\$55.49	\$151.11
769D	\$21,650.00	\$135.31	\$41.49	\$176.80
773E	\$34,025.00	\$212.66	\$55.14	\$267.80
777D	\$55,700.00	\$348.13	\$78.68	\$426.81
785C			\$64.26	\$64.26
793C			\$110.64	\$110.64
797B			\$155.69	\$155.69
613E (5,000 gal) Water Wagon	\$6,630,00	\$41.44	\$24.84	\$66.28
621E (8,000 gal) Water Wagon	\$11,220.00	\$70.13	\$44.15	\$114.27
777D Water Truck			\$44.39	\$44.39
785C Water Truck			\$64.26	\$64.26
Dump Truck (10-12 yd <sup>3</sup> )	\$11,814,00	\$73.84	\$14.81	\$88.65
IOTES:	k	*******	******	*******
(1) Power Equipment Source:				
(2) Power Equipment Type:	<b>I</b>	nt. LeTourneau load	er. Komatsu shove	ls
(3) Drilling Equipment Source:		<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>		
	RS Means Heavy Construct			

FUEL, LUBE AND WEAR C	ALCULATIONS					
EQUIPMENT TYPE	PM Cost Per Hour <sup>(1)</sup>	Under carriage or Tires <sup>(2)</sup>	G.E.T Consumption (3)	Fuel Use Rate gal/hr (4)	<b>Cost@</b> 2.65/gal	Total Hourly Equipment Cost
Bulldozers						
D6R	\$7.63		\$5,18	6.25	\$16.56	\$29.37
D6R w/ Winch				6.25	\$16.56	\$16.56
D7R	\$7.63		\$5.18	7.50	\$19.88	\$32.69
D8R	\$8.05		\$10.07	9.75	\$25.84	\$43.96
D9R	\$9.18		\$15.66	14.25	\$37.76	\$62.60
D10R	\$10.80		\$21.92	18.00	\$47.70	\$80.42
D11R	\$14.71		\$32.26	26.50	\$70.23	\$117.20
Wheeled Dozers						
824G		\$0.00		10.75	\$28.49	\$28.49
834G		\$0.00		12.60	\$33.39	\$33.39
844		\$0.00		15.00	\$39.75	\$39.75
854G		\$0.00		19.00	\$50.35	\$50.35

6/4/2021 Copyright © 2004 - 2009 SRCE Software. All Rights Reserved.

Equipment Costs
Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1 Cost Data: User Data

et deta-USR 1 12 Rosemont Conner World 06032021 vis

Notor Graders						
120H	\$4.64	<b></b>	\$10.78	4.00	\$10.60	\$31
14G/H	\$5,78	<b></b>	\$15.58	6.25	\$16.56	\$46
16G/H	\$6.04	\$10.75	\$21.28	7.50	\$19.88	\$57
24M				15.50	\$41.08	\$41
rack Excavators	T	т				
312C	\$4.36		\$4.03	1.88	\$4.98	\$13
320C	\$4.65		\$4.65	4.90	\$12.99	\$22
325C	\$4.68		\$5.87	6.60	\$17.49	\$28
330C	\$5.77		\$6.46	8.20	\$21.73	\$33
345B	\$7.66		\$6.61	10.60	\$28.09	\$42
365BL	40.40		#40.50	13.20	\$34.98	\$34
385BL	\$6.42		\$13.53	17.50	\$46.38	\$66
crapers						
631G	\$7,74	\$13.86	\$8.48	15.00	\$39.75	\$69
637G	\$12.87	\$13.86	\$10.66	23.75	\$62.94	\$100
Vheeled Loaders						
924G	<b>\$3.</b> 53	\$5.59	\$4.47	2.75	\$7.29	\$20
928G	\$4.14	\$5.59	\$4.62	3.50	\$9.28	\$23
950G	\$5.15		\$8.60	4.00	\$10.60	\$29
966G	\$5.37	\$7.25	\$10.79	5.75	\$15.24	\$38
972G	\$6.07	\$7.25	\$13.67	6.25	\$16.56	\$40
980G	\$6.07	\$9.67	\$13.67	7.50	\$19.88	\$49
988G	\$11.37	\$12.27	\$14.65	12.10	\$32.07	\$70
990				17.00	\$45.05	\$4
992G	\$12.59	\$25.17	\$33.63	23.00	\$60.95	\$13
994D				36.00	\$95.40	\$9
L2350				66.00	\$174.90	\$17-
hovels						
PC2000				37.00	\$98.05	\$98
PC3000				50.00	\$132.50	\$13
PC4000				70.00	\$185.50	\$18
PC5500				119.00	\$315.35	\$31
PC8000				149.00	\$394.85	\$394
ydraulic Hammers						
H-120 (fits 325)	N/A		\$5.62			\$:
H-160 (fits 345)	N/A		\$10.98			\$1
H-180 (fits 365/385)	N/A		\$13.01			\$1:
emolition Shears						
\$340 (fits 322/325/330)	N/A			^^^		\$.
	N/A N/A					
S365 (fits 330/345)	N/A					\$
\$365 (fits 330/345) \$390 (fits 365/385)						\$
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples	N/A N/A					\$1
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples G315 (fits 322/325)	N/A N/A					\$ \$
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples G315 (fits 322/325) G320 (fits 325/330)	N/A N/A N/A N/A					\$ \$ \$ \$
S365 (fits 330/345) S390 (fits 365/385) emolifion Grapples G315 (fits 322/325) G320 (fits 325/330) G330 (fits 345/365)	N/A N/A					\$ \$ \$ \$
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples G315 (fits 322/325) G320 (fits 325/330) G330 (fits 345/365) ther Equipment	N/A N/A N/A N/A N/A					\$ \$ \$ \$
S365 (fits 330/345) S390 (fits 365/385) Emolifion Grapples G315 (fits 322/325) G320 (fits 325/330) G330 (fits 345/365) Ther Equipment 420D 4WD Backhoe	N/A N/A N/A N/A N/A \$4.29	\$0.81	\$3.59	3.00	\$7.95	\$ \$ \$ \$ \$
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples S315 (fits 322/325) S320 (fits 325/330) S330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe	N/A N/A N/A N/A N/A		\$3.59 \$3.69	3.00	\$7.95	\$ \$ \$ \$ \$1
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples S315 (fits 322/325) S320 (fits 325/330) S330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe CS533E Vibratory Roller	N/A N/A N/A N/A N/A \$4.29	\$0.81		3.00 3.75	\$7.95 \$9.94	\$ \$ \$ \$ \$ \$ \$ \$ \$
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples G315 (fits 322/325) G320 (fits 325/330) G330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe CS533E Vibratory Roller CS633E Vibratory Roller	N/A N/A N/A N/A N/A \$4.29	\$0.81		3.00 3.75 4.75	\$7.95 \$9.94 \$12.59	\$ \$ \$ \$ \$1 \$1 \$1
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples G315 (fits 322/325) G320 (fits 325/330) G330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe CS533E Vibratory Roller CS633E Vibratory Roller CP533E Sheepsfoot Compactor	N/A N/A N/A N/A N/A \$4.29	\$0.81		3.00 3.75 4.75 3.75	\$7.95 \$9.94 \$12.59 \$9.94	\$ \$ \$ \$ \$1 \$1 \$1
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples G315 (fits 322/325) G320 (fits 325/330) G330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe CS533E Vibratory Roller CS633E Vibratory Roller CP533E Sheepsfoot Compactor CP633E Sheepsfoot Compactor	N/A N/A N/A N/A N/A \$4.29	\$0.81 \$0.81		3.00 3.75 4.75 3.75 4.75	\$7.95 \$9.94 \$12.59 \$9.94 \$12.59	\$ \$ \$ \$ \$1 \$1 \$1 \$1 \$3
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples S315 (fits 322/325) S320 (fits 325/330) S330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe CS533E Vibratory Roller CS633E Vibratory Roller CP533E Sheepsfoot Compactor CP633E Sheepsfoot Compactor	N/A N/A N/A N/A N/A \$4.29	\$0.81 \$0.81		3.00 3.75 4.75 3.75 4.75 1.50	\$7.95 \$9.94 \$12.59 \$9.94 \$12.59 \$3.98	\$ \$ \$ \$ \$1 \$1 \$ \$1 \$1
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples S315 (fits 322/325) S320 (fits 325/330) S330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe CS533E Vibratory Roller CS633E Vibratory Roller CS633E Vibratory Roller CS63SE Sheepsfoot Compactor Light Truck - 1.5 Ton Supervisor's Truck	N/A N/A N/A N/A N/A \$4.29	\$0.81 \$0.81 \$0.27 \$0.27		3.00 3.75 4.75 3.75 4.75 1.50	\$7.95 \$9.94 \$12.59 \$9.94 \$12.59 \$3.98 \$2.65	\$ \$ \$ \$ \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples S315 (fits 322/325) S320 (fits 325/330) S330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe CS533E Vibratory Roller CS633E Vibratory Roller CP533E Sheepsfoot Compactor CP633E Sheepsfoot Compactor Light Truck - 1.5 Ton Supervisor's Truck Flatbed Truck	N/A N/A N/A N/A N/A \$4.29	\$0.81 \$0.81	\$3.69	3.00 3.75 4.75 3.75 4.75 1.50 1.00	\$7.95 \$9.94 \$12.59 \$9.94 \$12.59 \$3.98 \$2.65 \$12.46	\$ \$ \$ \$1 \$1 \$1 \$ \$1 \$ \$1 \$3 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1
S365 (fits 330/345) S390 (fits 365/385) emolition Grappies S315 (fits 322/325) S320 (fits 325/330) S330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe CS533E Vibratory Roller CS633E Vibratory Roller CP633E Sheepsfoot Compactor CP633E Sheepsfoot Compactor CP633E Sheepsfoot Compactor CP637E STruck Flatbed Truck Air Compressor + tools	N/A N/A N/A N/A N/A \$4.29	\$0.81 \$0.81 \$0.27 \$0.27	\$3.69 N/A	3.00 3.75 4.75 3.75 4.75 1.50 1.00 4.70	\$7.95 \$9.94 \$12.59 \$9.94 \$12.59 \$3.98 \$2.65 \$12.46	\$ \$ \$ \$1 \$1 \$1 \$ \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1
S365 (fits 330/345) S390 (fits 365/385) emolition Grappies S3315 (fits 322/325) S320 (fits 325/330) S330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe CS533E Vibratory Roller CS633E Vibratory Roller CP533E Sheepsfoot Compactor CP633E Sheepsfoot Compactor Light Truck - 1.5 Ton Supervisor's Truck Flatbed Truck Air Compressor + tools Welding Equipment	N/A N/A N/A N/A N/A \$4.29	\$0.81 \$0.81 \$0.27 \$0.27	\$3.69	3.00 3.75 4.75 3.75 4.75 1.50 1.00 4.70 1.00	\$7.95 \$9.94 \$12.59 \$9.94 \$12.59 \$3.98 \$2.65 \$12.46 \$2.65 \$5.30	\$ \$ \$ \$1 \$1 \$1 \$ \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples G315 (fits 322/325) G320 (fits 325/330) G330 (fits 345/365) ther Equipment 420D 4WD Backhoe CS533E Vibratory Roller CS633E Vibratory Roller CP533E Sheepsfoot Compactor CP633E Sheepsfoot Compactor Light Truck - 1.5 Ton Supervisor's Truck Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Drill Rig	N/A N/A N/A N/A N/A \$4.29	\$0.81 \$0.81 \$0.27 \$0.27	\$3.69 N/A	3.00 3.75 4.75 3.75 4.75 1.50 1.00 4.70 1.00 2.00	\$7.95 \$9.94 \$12.59 \$9.94 \$12.59 \$3.98 \$2.65 \$12.46 \$2.65 \$5.30 \$31.80	\$ \$ \$ \$1 \$1 \$ \$1 \$ \$1 \$ \$ \$ \$ \$ \$ \$ \$ \$
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples G315 (fits 322/325) G320 (fits 325/330) G330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe C9533E Vibratory Roller C9533E Vibratory Roller C9533E Sheepsfoot Compactor CP633E Sheepsfoot Compactor Light Truck - 1.5 Ton Supervisor's Truck Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Drill Rig Pump (plugging) Drill Rig	N/A N/A N/A N/A N/A \$4.29	\$0.81 \$0.81 \$0.27 \$0.27	\$3.69 N/A N/A	3.00 3.75 4.75 3.75 4.75 1.50 1.00 4.70 1.00 2.00 12.00	\$7.95 \$9.94 \$12.59 \$9.94 \$12.59 \$3.98 \$2.65 \$12.46 \$2.65 \$5.30 \$31.80	\$ \$ \$ \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$2 \$3 \$3
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples G315 (fits 322/325) G320 (fits 325/330) G330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe C5533E Vibratory Roller CS633E Vibratory Roller CS633E Vibratory Roller CS633E Sheepsfoot Compactor CP633E Sheepsfoot Compactor Light Truck - 1.5 Ton Supervisor's Truck Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Drill Rig Pump (plugging) Drill Rig Concrete Pump	N/A N/A N/A N/A N/A \$4.29	\$0.81 \$0.81 \$0.27 \$0.27	\$3.69 N/A N/A	3.00 3.75 4.75 3.75 4.75 1.50 1.00 4.70 1.00 2.00 12.00 10.00	\$7.95 \$9.94 \$12.59 \$9.94 \$12.59 \$3.98 \$2.65 \$12.46 \$2.65 \$5.30 \$31.80 \$26.50	\$ \$ \$ \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$2 \$2 \$3 \$3
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples G315 (fits 322/325) G320 (fits 325/330) G330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe CS533E Vibratory Roller CS633E Vibratory Roller CP533E Sheepsfoot Compactor CP633E Sheepsfoot Compactor Light Truck - 1.5 Ton Supervisor's Truck Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Drill Rig Pump (plugging) Drill Rig Concrete Pump Gas Engine Vibrator	N/A N/A N/A N/A N/A \$4.29	\$0.81 \$0.81 \$0.27 \$0.27	\$3.69 N/A N/A N/A	3.00 3.75 4.75 3.75 1.50 1.00 4.70 1.00 2.00 12.00 10.00 10.00	\$7.95 \$9.94 \$12.59 \$9.94 \$12.59 \$3.98 \$2.65 \$12.46 \$2.65 \$5.30 \$31.80 \$26.50 \$26.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
S365 (fits 330/345) S390 (fits 365/385) emolition Grapples G315 (fits 322/325) G320 (fits 325/330) G330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe CS533E Vibratory Roller CS533E Vibratory Roller CP533E Sheepsfoot Compactor CP633E Sheepsfoot Compactor Light Truck - 1.5 Ton Supervisor's Truck Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Drill Rig Pump (plugging) Drill Rig Concrete Pump Gas Engine Vibrator Generator 5KW	N/A N/A N/A N/A N/A \$4.29	\$0.81 \$0.81 \$0.27 \$0.27	\$3.69 N/A N/A N/A N/A	3.00 3.75 4.75 3.75 4.75 1.50 1.00 4.70 1.00 2.00 12.00 10.00 10.00 10.00 1.00	\$7.95 \$9.94 \$12.59 \$9.94 \$12.59 \$3.98 \$2.65 \$12.46 \$2.65 \$5.30 \$31.80 \$26.50 \$26.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
S365 (fits 330/345) S390 (fits 365/385) emolition Grappies G315 (fits 322/325) G320 (fits 325/330) G330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe CS533E Vibratory Roller CS633E Vibratory Roller CP533E Sheepsfoot Compactor CP633E Sheepsfoot Compactor Light Truck - 1.5 Ton Supervisor's Truck Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Drill Rig Pump (plugging) Drill Rig Concrete Pump Gas Engine Vibrator Generator 5KW HDEP Welder (pipe or liner)	N/A N/A N/A N/A N/A \$4.29	\$0.81 \$0.81 \$0.27 \$0.27	\$3.69 N/A N/A N/A	3.00 3.75 4.75 3.75 4.75 1.50 1.00 4.70 1.00 2.00 12.00 10.00 10.00 1.00 1.50	\$7.95 \$9.94 \$12.59 \$9.94 \$12.59 \$3.98 \$2.65 \$12.46 \$2.65 \$5.30 \$31.80 \$26.50 \$26.50 \$2.65 \$3.98	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
S365 (fits 330/345) S390 (fits 365/385) emolition Grappies G315 (fits 322/325) G320 (fits 325/330) G330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe CS533E Vibratory Roller CS633E Vibratory Roller CF533E Sheepsfoot Compactor CP633E Sheepsfoot Compactor CP633E Sheepsfoot Compactor Supervisor's Truck Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Drill Rig Pump (plugging) Drill Rig Concrete Pump Gas Engine Vibrator Generator 5KW HDEP Welder (pipe or liner) 5 Ton Crane	N/A N/A N/A N/A N/A \$4.29	\$0.81 \$0.81 \$0.27 \$0.27	\$3.69 N/A N/A N/A N/A	3.00 3.75 4.75 3.75 4.75 1.50 1.00 4.70 1.00 2.00 12.00 10.00 10.00 1.00 1.50 2.00	\$7.95 \$9.94 \$12.59 \$9.94 \$12.59 \$3.98 \$2.65 \$12.46 \$2.65 \$5.30 \$31.80 \$26.50 \$2.65 \$2.65 \$3.98 \$2.65 \$3.98	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
S340 (fits 322/325/330) S365 (fits 330/345) S390 (fits 336/345) S390 (fits 336/385) emolition Grapples G315 (fits 322/325) G320 (fits 325/330) G330 (fits 345/365) ther Equipment 420D 4WD Backhoe 428D 4WD Backhoe CS533E Vibratory Roller CS633E Vibratory Roller CS633E Vibratory Roller CP533E Sheepsfoot Compactor Light Truck - 1.5 Ton Supervisor's Truck Flatbed Truck Air Compressor + tools Welding Equipment Heavy Duty Drill Rig Pump (plugging) Drill Rig Concrete Pump Gas Engine Vibrator Generator 5KW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane	N/A N/A N/A N/A N/A \$4.29	\$0.81 \$0.81 \$0.27 \$0.27	\$3.69 N/A N/A N/A N/A	3.00 3.75 4.75 3.75 4.75 1.50 1.00 4.70 1.00 2.00 12.00 10.00 10.00 1.00 1.50	\$7.95 \$9.94 \$12.59 \$9.94 \$12.59 \$3.98 \$2.65 \$12.46 \$2.65 \$5.30 \$31.80 \$26.50 \$26.50 \$2.65 \$3.98	\$ \$

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 3 of 5 Equipment Costs

Equipment Costs
Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1 Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm

Trucks						
725	\$8,53	\$14.47	\$3.22	4.70	\$12.46	\$38.68
730	\$8,53	\$14.47	\$3.22	5.20	\$13.78	\$40.00
735	\$8.53	\$23.04	\$3.22	7.35	\$19.48	\$54.27
740	\$8.53	\$24.26	\$3.22	7.35	\$19.48	\$55.49
769D	\$6,32	\$7.05	\$3.60	9.25	\$24.51	\$41.49
773E	\$7.82	\$12.14	\$4.04	11.75	\$31.14	\$55.14
777D	\$11,19	\$18.59	\$4.51	16.75	\$44.39	\$78.68
785C				24.25	\$64.26	\$64.26
793C				41.75	\$110.64	\$110.64
797B				58.75	\$155.69	\$155.69
613E (5,000 gal) Water Wagon	\$5.12	\$3.82		6.00	\$15.90	\$24.84
621E (8,000 gal) Water Wagon	\$7.24	\$8.42		10.75	\$28.49	\$44.15
777D Water Truck				16.75	\$44.39	\$44.39
785C Water Truck				24.25	\$64.26	\$64.26
Dump Truck (10-12 yd3 ) (5)	N/A	\$1.03	N/A	5.20	\$13.78	\$14.81
Notes:						

N	otes	

(1) PM Source:	Cashman Equipment Company (July 2020) unless noted
(2) Undercarriage Source:	Purecell Tire Quote: June 2020
(3) G.E.T. Source:	Cashman Equipment Company (July 2020) unless noted
(4) Fuel Use Source:	Caterpillar Handbook, Edition 35, Ch. 20; or estimated average for smaller vehicles
(5) Dump Truck Oper. Cost Source:	Means Heavy Construction (2008)

			(BI	

Fequipment	Tire Size	# of Tires Per Piece of Equipment	Cost Per Tire	Tire Cost <sup>(1)(2)</sup>	Life Expectency Hours (Low/Zone A) (3)	Tire Cost per Hour
Bulldozers						
D6R			N/A			
D6R w/ Winch			N/A			
D7R			N/A			
D8R			N/A			
D9R			N/A			
D10R			N/A			
D11R			N/A			
Wheeled Dozers						
824G	29.5R25	4		\$0.00	3,500	\$0.00
834G	35/65-R33	4		\$0.00	3,500	\$0.00
844	45/65-R39	4		\$0.00	3,500	\$0.00
854G	45/65-R45	4		\$0.00	3,500	\$0.00
Motor Graders	<u> </u>					
120H	13PR24	T 6	\$3,282,50	\$19,695.00	3,500	\$5.63
14G/H	20.5R25	6	\$4,919.50	\$29,517.00	3,500	\$8.43
16G/H	23.5R25	6	\$6,272.90	\$37,637.40	3,500	\$10.75
24M	23.5R25	6	***	\$0.00	3,500	V.0 V
Track Excavators						<u> </u>
312C			N/A			
320C			N/A			
325C			N/A			
330C			N/A			
345B			N/A			
365BL			N/A			
385BL			N/A			
Scrapers			1			
631G	37.25R35	4	\$13,862,80	\$55,451.20	4.000	\$13.86
637G	37.25R35	4 4	\$13,862.80	\$55,451.20	4,000	\$13.86
Wheeled Loaders	37.23103	7	Ψ10.002.00	φου, το 1.20	4,000	Ψ15.00
	47.5D05	T	\$0.000.00	<b>ACE 400.00</b>	4.500	<b>AF 50</b>
924G 928G	17.5R25	4	\$6,292.00 \$6,292.00	\$25,168.00 \$25,168.00		\$5.59
	17.5R25	4			4,500	\$5.59
950G	26.5R25	4	\$5,565.40 \$8,160.20	\$22,261.60 \$32.640.80	4,500	\$4.95
966G	26.5R25	4			4,500	\$7.25
972G	26.5R25	4	\$8,160.20	\$32,640.80	4,500	\$7.25
980G	29.5R25	4	\$10,873.40	\$43,493.60	4,500	\$9.67
988G	35/65-33	4	\$13,808.70	\$55,234.80	4,500	\$12.27
990	41.25/70-39	4	**********	\$0.00	4,500	
992G	45/65R45	4	\$28,316.00	\$113,264.00	4,500	\$25.17
994D	55/85R57	4		\$0.00	4,500	
L2350	55/85R57	4		\$0.00	4,500	

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 4 of 5 Equipment Costs

Equipment Costs
Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1 Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm

Shovels							
PC2000				VA			
PC3000				√A			
PC4000				√A			
PC5500				VA			
PC8000				VA			
Hydraulic Hammers			1				
H-120 (fits 325)			1 1	VA			
H-160 (fits 345)				√A			
H-180 (fits 365/385)				₩A			
Demolition Shears			-				
S340 (fits 322/325/330)	Τ			₩A			
S365 (fits 330/345)				√A			
S390 (fits 365/385)				₽A			
Demolition Grapples							
G315 (fits 322/325)				<b>V</b> A			
G320 (fits 325/330)		***************************************	<u> Processors conserved</u>	₩A			
G330 (fits 345/365)				VA			
Other Equipment			1		1		1
420D 4WD Backhoe	340/80R18-19.5LR24	2		\$1,221,10	\$2,442.20	3,000	\$0.8
428D 4WD Backhoe	340/80R18-16.9R28	2	+	\$1,221.10	,	3,000	\$0.8
CS533E Vibratory Roller	340/001(10-10.31(20		<u> </u>	Ψ1,221.10 VA	Ψ2,442.20	3,000	φυ.ο
CS633E Vibratory Roller				VA			
CP533E Sheepsfoot Compactor	<u> </u>			VA			
CP633E Sheepsfoot Compactor				VA			
Light Truck - 1.5 Ton	1	4		06.2	\$824.80	3,000	\$0.2
Supervisor's Truck		4	<del></del>	06.2	\$824.80	3,000	\$0.2
Flatbed Truck		22		06.2	\$4,536.40	3,000	\$1.5
Air Compressor + tools				₩A	\$1,000.70	0,000	<b>V</b>
Welding Equipment				₩A			
Heavy Duty Drill Rig		4	<del> </del>		\$0.00	3,000	
Pump (plugging) Drill Rig		4	+		\$0.00	3,000	
Concrete Pump				√A	71111	2,222	
Gas Engine Vibrator				√A			
Generator 5KW				√A			
HDEP Welder (pipe or liner)				√A			
5 Ton Crane		4			\$0.00	3,000	
20 Ton Crane		4			\$0.00	3,000	
50 Ton Crane		6			\$0.00	3,000	
120 Ton Crane		6			\$0.00	3,000	
Trucks							
725	23.5R25	6		\$4,824.30	\$28,945.80	2,000	\$14.47
730	23.5R25	6		\$4,824.30		2,000	\$14.47
735	26.5R25	6	1	\$7,681.00		2,000	\$23.04
740	29.5R25	6	1	\$8,086.20		2,000	\$24.26
769D	18.00R33	6	1	\$7,054.80	\$42,328.80	6,000	\$7.05
773E	24.00R35	6	1	\$10,119.20		5,000	\$12.14
777D	27.00R49	6		\$15,494.70	\$92,968.20	5,000	\$18.59
785C	33.00R51	6			\$0.00	4,000	
793C	40.00R57	6	1		\$0.00	4,000	
797B	40.00R57	6	1		\$0.00	4,000	
613E (5,000 gal) Water Wagon	23.5R25	6	1	\$3,818,10		6,000	\$3.82
621E (8,000 gal) Water Wagon	33.25R29	6	1	\$11,223.35		8,000	\$8.43
777D Water Truck	27.00R49	6			\$0.00	5,000	
785C Water Truck	33.00R51	6			\$0.00	4,000	
Dump Truck (10-12 yd3 )		10		\$619.90	\$6,199.00	6,000	\$1.0
Notes:							
(1) Unit Cost Basis:	Cost per set						_
(2) Cost Basis:	Total cost for all requir						4
(3) Tire Cost Source: (4) Tire Wear Source:	Purecell Tire Quote: J Caterpillar Handbook,						4
(4) The West Source.	L careibilai Hallabook,	Camon 55, OH 20					

6/4/2021 Copyright © 2004 - 2009 SRCE Software. All Rights Reserved.

Revegetation Method

Waste Rock Dumps Heap Leach Tailings Quarries & Borrow Pits

Disturbance Type

Exploration Trenches Exploration Roads Waste Rock Dumps

Heap Leach
Tailings
Quarries & Borrow Pits
Roads

Foundations & Buildings

Yards, Etc. Revegetation Maintenance

Sediment & Drainge Control

Pits Haul Material

Process Ponds Landfills

Siopes Seed Application Method

Mechanical Broadcast Mechanical Broadcast Hand Broadcast Mechanical Broadcas Flat Areas and Ur Seed Application Method

Mechanical Broadcast

Mechanical Broadcast Mechanical Broadcast

Mechanical Broadcast Mechanical Broadcast

Mechanical Broadcast Mechanical Broadcast

Mechanical Broadcast Mechanical Broadcast

Mechanical Broadcast

Mechanical Broadcast

Mechanical Broadcast Mechanical Broadcast

Mechanical Broadcast Mechanical Broadcast

Cost/Acre

erentiated

\$140.00 \$140.00 \$140.00 \$140.00 \$140.00

\$140.00

\$140.00

\$140.00 \$140.00

Cost/Acre

Equipment Cost/Acre

\$50.00 \$50.00

\$50.00

\$50.00

\$50.00

Cost/Acre

Total Cost/Acre

\$190.0 \$190.0 \$190.0 \$190.0 \$190.0 \$190.0

\$190.0

\$190.0

\$190.0 \$190.0

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm
Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

tevegetation Materials	Seed Mixes		
Seed Mix	Descrip	tion	Cost/Acre
	Бессир		
lone			1
/lix 1	Basins		\$302.50
Aix 2	Low Hills		\$332.75
lix 3	Uplands		\$383.00
fix 4	Riparian or Custom		\$393.28
User Mix 1			
User Mix 2			
User Mix 3			
Jser Mix 4	Cost/lb	lbs/Acre	Cost/Acre
10.50			
iser Mix 5 (from Seed Mix sheet) Notes:	\$0.00	\$17.42	\$0.00
Notes.			
	Mulch		
Item	Cost/lb	lbs/Acre	Cost/Acre
one			
raw Mulch	\$0.17		
ydro Mulch	\$0.25		
mber Mulch			
KI-X			
Notes:	7.0.2500	Van in Erry Kan V	
Notes:	Granite Geet \$500 per	ton in 50lb bag Wo	soc (hydro) mulch ("iu
Notes:	Granite Seed \$500 per	ton in 50lb bag Wo	iae (hydio) mulch (Ju
Notes:	Granite Seed \$500 per	ton in 50lb bag Wo	oc (hydro) mulch (Ju
Notes:		ton in 50lb bag Wo	use (hydro) mulch (Ju
Notes:	Granite Seed \$500 per	ton in 50lb bag 'A'	sac (hydro) mulch (Ju
Notes:		ton in 50lb bag Wo	pac (hydro) mulch (Ju
	Amendments		
<b>item</b>	Amendments Cost/lb		Cost/Acre
ttern one rganic Matter	Amendments		
item one rganio Matter	Amendments Cost/lb		Cost/Acre
Item one agaid Matter sated Sludge	Amendments Cost/lb		Cost/Acre
Item ne paganic Matter sated Sludge	Amendments Cost/lb		Cost/Acre
Item one agaid Matter sated Sludge	Amendments Cost/lb		Cost/Acre
Item one garanic Matter eated Studge	Amendments Cost/lb		Cost/Acre
Hem one garlic Matter easted Sludge	Amendments Cost/lb		Cost/Acre
item one rganio Matter	Amendments Cost/lb		Cost/Acre
Item one rganic Matter evaled Sludge hernical	Amendments Cost/b 80.70 \$0.89	lbs/Acre	\$0.00 \$0.00
Nem one rganic Matter erated Sludge hernical	Amendments Cost/lb	lbs/Acre	\$0.00 \$0.00
Item one rganic Matter evaled Sludge hernical	Amendments Cost/b 80.70 \$0.89	lbs/Acre	\$0.00 \$0.00
Item one rganic Matter evaled Sludge hernical	Amendments Cost/b 80.70 \$0.89	lbs/Acre	\$0.00 \$0.00
Item one rganic Matter evaled Sludge hernical	Amendments Cost/b 80.70 \$0.89	lbs/Acre	\$0.00 \$0.00

Nell Abandonment Ma	iterials		
Description	Cost/50lb bag	Units	Cost/unit*
Cement	\$7.57	cy	\$36.05
Grout (Low Grade Bentonite)	\$8.65	Cy	\$42.14
		cy	
Inert Material/Cuttings		***	
Inert Material/Cuttings		Cy	

(2) sentects Diffing Supply Close (June 2022) Type 1: In Cement at \$14.24 par 64 to bag.
(2) sentects Diffing Supply (June 2023) 3/6 in: Charit Bestonite Hole Plag at \$6.95 per 50 fb; bag (6,75 cf/bag at 43 gallons slurry and 12.1% solids)+ 10% for bentonite chips added.

\* Assumes 1 bag mixes with water to make 0.21 y3 or 0.16 m3 of grout/cement slurry.

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan
Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm
Cost Estimate Type: Surety
Cost Basis: Southern Nevada - Adjusted for Arizona

Monitoring Costs		
Description	Units	Cost/unit
Monitor Well Pump	ea.	\$2,768.41
Sampling Supplies	ea.	\$6.51
Nafer Analysis (Profile () (1)	ea.	\$411.00
each Test (MWMP) w/ analysis	ea	\$463.40
ABA + S speciation	68	\$150.00
WAD Cyanide in water	98	956.00
Water Analysis (Profile II) (1)	ea.	\$461.00
	ea	
	ea	
	98	
	ea.	
	¢ä	
	68	
	ea	
	ea ea	
	28	
1) WET Lab. Rano Nevada (July 2		
Moli pump and Sample supply cost Distinal source unknown	s adjusted to 2020.	
	γ	

Description	Units	Cost/unit
Off-road Diesel - delivered (1)	\$/gal	52.58
Pickup Truck Mileage	\$/mi	\$0.58
Electical Power	\$/kWh	\$0.08
		20
ource: NV Energy (July 2020) 50 (	7872	
1) Source: AZ Tucson Firel Cost, a source: Federal Government Vehic source: NV Energy (July 2020) \$0	de Allowance Rate 20	

1 of 5

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xism

Model Version: Version 1.4.1

Cost Data: User Data

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

Revegetation										
	Means Number	Unit	Crew	Daily Output	Daily Output User	Materials	Labor	Equipment	Total	Notes
Seeding - Broadcast Hand (1)		acres					\$140.00	\$50.00	\$190.00	
Seeding - Broadcast Mechanical (1)		acres					\$140.00	\$50.00	\$190.00	
Seeding - Drill (1)		acres		365			\$140.00			
Seeding - Hydroseeding (1)				365			\$250.00	\$150.00	\$400.00	
Shrub Planting - bare root 6-10 in (150- 250mm) (2)	02910-400-0561	ea.	1 Clab	365					\$0.00	
Tree Planting - bare root 11-16 in (270- 400mm) (3)		ea.	1 Clab	260					\$0.00	
Cactus Planting (4)		ea.	1 Clab						\$0.00	
NOTES:										
(1) Seeding Source:	Source: Kelley Erosion (	Control (Ju	ily 2020).							
(2) Shrub Source:										
(3) Tree Source:										
(4) Cactus Source:										

# **Building and Wall Demolition**

Hourly productivity rates and crew composition from Means Heavy Construction 2005 Edition by permission of R.S.Means/Reed Construction Data .

All equipment, labor and material unit costs are from Labor Costs, Equipment Costs and Material Costs spreadsheets

	Means Number	Unit	Crew	Daily Output	Daily Output User	Labor	Equipment	Premium	Total	Notes
Building Demolition										
Lg. steel	02220-110-0012	C.F.	B-8	21500		\$0.20	\$0.12		\$0.32	
Lg. concrete	02220-110-0050	C.F.	B-8	15300		\$0.28	\$0.17		\$0.45	
Lg. masonry	02220-110-0080	C.F.	B-8	20100		\$0.21	\$0.13		\$0.34	
Lg. mixed	02220-110-0100	C.F.	B-8	20100		\$0.21	\$0.13		\$0.34	
Sm. steel	02220-110-0500	C.F.	B-3	14800		\$0.24	\$0.13		\$0.37	
Sm. concrete	02220-110-0600	C.F.	B-3	11300		\$0.32	\$0.17		\$0.49	
Sm. masonry	02220-110-0650	C.F.	B-3	14800		\$0.24	\$0.13		\$0.37	
Sm. wood	02220-110-0700	C.F.	B-3	14800		\$0.24	\$0.13		\$0.37	
Wall Demolition										
Block 4 in (100 mm) thick	02220-130-2000	S.F.	1 Clab	180		\$2.64	\$0.00		\$3.17	
Block 6 in (150 mm) thick	02220-130-2040	S.F.	1 Clab	170		\$2.80	\$0.00	20%	\$3.36	
Block 8 in (200 mm) thick	02220-130-2080	S.F.	1 Clab	150		\$3.17	\$0.00			
Block 12 in (300 mm) thick	02220-130-2100	S.F.	1 Clab	150		\$3.17	\$0.00	20%		
Conc 6 in (150 mm) thick	02220-130-2400	S.F.	B-9	160		\$22.15	\$1.93			
Conc 8 in (200 mm) thick	02220-130-2420	S.F.	B-9	140		\$25.32	\$2.20	10%		
Cone 10 in (250 mm) thick	02220-130-2440	S.F.	B-9	120		\$29.54	\$2.57	10%	\$35.32	
Conc 12 in (300 mm) thick	02220-130-2500	S.F.	B-9	100		\$35,45	\$3.09	10%	\$42.39	

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

/aste Disposal									
nit rates from Means Heavy Construction 2006 Edition by	permission of R.S.Mea	ns/Reed	Construction						
	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment	Total	Notes
ubbish Handling							·		
Dumpster delivery (average for all sizes)	02220-350-0910	ea.	T		\$51.50	•••••	T	\$51.50	
Haul (average for all sizes)	02220-350-0920	ea.			\$161.00			\$161.00	
Rent per month (average for all sizes)	02220-350-0940	ea.			\$55.00			\$55.00	
Disposal fee per ton (tonne) (average for all sizes)	02220-350-0950	ton			\$60.50			\$60.50	
NOTES:									
Dumpster Cost Source									
Dumpster Disposal Fee Source:		truction (	2020 OZ)						
zardous Material Handling - Solids (+ Liquid	is in drums)								
Pickup fees 55 gal (200 L). drums		Θ8.			\$251.00			\$251.00	
Bulk material (average)	02110-300-1220/1230	ton			\$409.50			\$409.50	
Transport - truck load (80 drums, 25 cy (m3), 18 tons)		mile			\$5.88			\$5.88	
Dump site solid disposal fee	02110-300-6000/6020	ton			\$288.50			\$288.50	
NOTES:									
Solid Handling Cost Source	R.S. Means Heavy Cons	truction (;	2019 Q2).						
Solid Disposal Fee Source:	019 Q2 R.S. Means He	avy Cons	t. ave. 02 6	11					
szardous Material Handling - Liquids									
Vacuum Truck Pickup (2200 gal/8300 L)	02110-300-3110	hr.			\$147.00			\$147.00	
Vacuum Truck Pickup (5000 gal/19000 L)	02110-300-3120	hr.			\$213.00			\$213.00	
Dump site liquid disposal fee	02110-300-6000/6020	ton			\$288.50			\$288.50	
NOTES:									
Liquid Handling Cost Source	R.S. Means Heavy Cons	truction (.	2020 (Q2)						
Liquid Disposal Fee Source:	020 Q2 R.S. Meens He	avy Cons	t.eve 02 6	31					
drocarbon Contaminated Soils (HCS)									
	02115-200-2020/2021	C.Y.			\$17.64			\$17.64	
	02115-200-2050/2055	C.Y.			\$278.50			\$278.50	
NOTES:									
Insitu Treatement Cost Source									
HCS Disposal Fee Source: 2	020 OZ R.S. Means He	avy Cons	t. ave. 02	65					

3 of 5

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Weekly dumpster rental rates from Means Heavy Constru			by R.S.M	eans/Reed C	Construction Dat	a.				
Veekly dumpster rental rates include haul to off-site dispos	al site and disposal fee	s								
	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment	Premium	Total	Notes
Reinforced Concrete Bulkheads and Shaft Co	vers									
Grade walls - 15 in (400mm) thick, 8 ft (2.5m) high	03310-240-4300	C.Y.	C-14D	80.02	\$163.00	\$179.13	\$11.12		\$353.25	includes reinforcing
Grade walls - 15 in (400mm) thick, 12 ft (3.7m) high	03310-240-4350	C.Y.	C-14D	26.2	\$163.00	\$547.10	\$33.95		\$744.05	includes reinforcing
Elevated conc, 1-way beam & slab - 15ft (4.6m) span	03310-240-2700	C.Y.	C-14B	20.59	\$278.00	\$710.32	\$43.20		\$1,031.52	includes reinforcing
Elevated conc, 1-way beam & slab - 25ft (7.5m) span	03310-240-2750	C.Y.	C-14B	28.36	\$265.00	\$515.71	\$31.37		\$812.08	includes reinforcing
Sat Gate/Foam Plug Installation										
Bat Gate (5)		ea.			\$3,367.61					materials \$/ea. Installed
Culvert Gate (5)		98.			\$6,735.21					materials \$/ea. Installed
Adit Foam Plug (6)	***************************************	ea./C.Y.			\$336.76					materials \$/cy placed
Production Opening Foam Plug (6)		ea./C.Y.			\$336.76					materials \$/cy placed
NOTES:					'	•			•	•
(5) Bat Gate Source:	W BLM, 2/2006: 8 hr +	1hr mob/d	emob + 11	ir setup per i	gate (adjusted to	3 2020)				
(6) Foam Plug Source:							ning (adjusted to	2020)		

4 of 5

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm Cost Estimate Type: Surety Cost Basis: Southern Nevada - Adjusted for Arizona

Aisc. Linear Projects										
Hourly productivity rates and crew composition from Means						nstruction Da	ta.		•	
All equipment, labor and material unit costs are from Labo	Costs, Equipment Co	sts and Ma	terial Cost		ets					
	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment	Premium	Total	Notes
encing Installation										
Barbed 3-strand	02820-170-1650	L.F.	B-80A	760	\$0.51	\$1.88	\$0.31		\$2.70	
Barbed 4-strand	extrapolated	L.F.	B-80A	570	\$0.68	\$2.50	\$0.41		\$3.59	
Barbed 5-strand	02820-130-0920	L.F.	B-80A	456	\$0.85	\$3.13	\$0.52		\$4.50	
Chain link 8-10ft (2.5-3m) Install	02820-130-0920	L.F.	B-80C	180	\$38.00	\$7.93	\$1.31		\$47.24	
Wood stockade fence 6 ft (2 m) high - Install	02820-510-1240	L.F.	B-80C	150	\$16.00	\$9.52	\$1.57		\$27.09	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
encing Removal										
Barbed 3-strand Removal	02220-220-1600	L.F.	2 Clab	430		\$2.21	\$0.55		\$2.76	
Barbed 4-strand Removal	extrapolated	L.F.	2 Clab	355		\$2.68	\$0.67		\$3.35	
Barbed 5-strand Removal	02220-220-1650	L.F.	2 Clab	280		\$3.40	\$0.84		\$4.24	
Chain link 8-10 ft (2.5-3 m) Removal	02220-220-1700	L.F.	B-6	445		\$3.60	\$1.02		\$4.62	
Wood, all types 4-6 ft ("1.5-2 m) high - Removal	02220-220-1775	L.F.	2 Clab	430		\$2.21	\$0.55		\$2.76	
	user	L.F.								
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
ulvert Removal										
12 in (300 mm ) Diameter	02220-220-2900	L.F.	B-6	175		\$9.17	\$2.59		\$11.76	
18 in (450 mm) Diameter	02220-220-2930	L.F.	B-6	150		\$10.69	\$3.03		\$13.72	
24 in (600 mm) Diameter	02220-220-2960	L.F.	B-6	120		\$13.37	\$3.78		\$17.15	
36 in (1m) Diameter	02220-220-3000	L.F.	B-6	90		\$17.82	\$5.04		\$22.86	
ipeline Removal										
0.75 in (20mm) - 4 in (100 mm) diameter	02220-381-1600	L.F.	B-20	700		\$2.82	\$0.34		\$3.16	
6 in (150 mm) - 8 in (200 mm)	02220-381-1700	L.F.	B-20	500		\$3.94	\$0.47		\$4.41	
10 in (250 mm) - 18 in (450 mm)	02220-381-1800	L.F.	B-20	300		\$6.57	\$0.79		\$7.36	
20 in (500 mm) - 36 in (1 m)	02220-381-1900	L.F.	B-20	200		\$9.86	\$1.18		\$11.04	
ipe and Drainpipe Installation										
Water 4in (100mm ) 40ft (12m) length, welded HDPE	02510-760-0100	L.F.	B-22A	400	\$2.70	\$6.84	\$4.85		\$14.39	
Water 6in (150mm) 40ft (12m) length, welded HDPE	02510-760-0200	L.F.	B-22A	380	\$5.85	\$7.20	\$5.11		\$18.16	
Water 12in (300mm) 40ft (12m) length, welded HDPE	02510-760-0500	L.F.	B-22A	260		\$10.53	\$7.46		\$17.99	
Drain 4in (100mm) perforated PVC	02620-630-2100	L.F.	B-14	315	\$1.74	\$11.35	\$1.60		\$14.69	
Drain 6in (150mm) perforated PVC	02620-630-2110	L.F.	B-14	300	84.22	\$11.92	\$1.68		\$17.82	
Drain 4in (100mm) corrugated, perf or plain	02620-660-0040	L.F.	2 Clab	1200	\$0.78	\$0.79	\$0.20		\$1.77	
Drain 6in (150mm) corrugated., perf or plain	02620-660-0060	L.F.	2 Clab	900	\$2.18	\$1.06	\$0.26		\$3.50	

5 of 5

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

in Rock Preparation										
Crushing		C.Y.							\$0.50	
Screening		C.Y.			l				\$0.50	
TOTAL									\$1.00	
ISC.										
Backhoe work	02210-700-0120	C.Y.	B-11M	28	Ι	\$23.39	\$9.58		\$32.97	
werline and Transformer Removal		1								
Single Pole		mile	1						\$46.804.00	
Double Pole		mile							\$53,490.00	
Transformer (9)		ea.	+						\$58,997.00	
11010111111 (07)		1	+							
NOTES:					l		k		<u> </u>	1
(7) Single Pole Source: [8]	V Energy estimate (20	009) Adjus	sted to 2020							
(8) Double Pole Source: N										
(9) Transformer Source: 🔉	V Energy estimate (2)	309) Adjus	ted to 2020							
rosion and Sedimentation Control										
ourly productivity rates and crew composition from Means	Heavy Construction 2	2005 Editio	on by permi	ssion of R.S	.Means/Reed C	onstruction Da	ıta .			
Il equipment, labor and material unit costs are from Labor										
	iiiiiii	T	T	Daily						
	Means Number	Unit	Crew	Output	Materials	Labor	Equipment	Premium	Total	Notes
p-Rap & Rock Lining										
Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted	02370-450-0110	S.Y.	B-13	80	\$25.00	\$44.67	\$8.51		\$78.18	assumes on-site source of rip-rap
Rip-Rap 18 in (450 mm) min thick, no grout	02370-450-0200	S.Y.	B-13	53	\$7.65	\$67.43	\$12.85		\$87.93	assumes on-site source of rip-rap
Gabions, 6 in (150 mm) deep	02370-450-0400	S.Y.	B-13	200	\$7.05	\$17.87	\$3.41		\$28.33	assumes on-site source rock fill for gabions
Gabions, 9 in (250 mm) deep	02370-450-0500	S.Y.	B-13	163	\$9.85	\$21.92	\$4.18		\$35.95	
Gabions, 12 in (300 mm) deep	02370-450-0200	S.Y.	B-13	153	\$14.30	\$23.36	\$4.45		\$42.11	assumes on-site source rock fill for gabions
Gabions, 18 in (450 mm) deep	02370-450-0200	S.Y.	B-13	102	\$18.35	\$35.04	\$6.68		\$60.07	assumes on-site source rock fill for gabions
Gabions, 36 in (1m) deep	02370-450-0200	S.Y.	B-13	60	\$31.00	\$59.56	\$11.35		\$101.91	assumes on-site source rock fill for gabions
DEP Liner Installation										
Finish grading large area	2310-100-0100	S.F.	B-11L	18000		\$0.06	\$0.06		\$0.12	
Compaction-riding, vibrating roller - 12in (300mm) lifts	2315-310-5100	C.Y.	B-10Y	2600		\$0.43	\$0.19		\$0.62	
60 mil HDPE	2660-610-0010	S.F.	3 Skwk	1600	\$0.57	\$1.31	\$0.47		\$2.35	
80 mil HDPE	user	S.F.	3 Skwk	149		\$14.02	\$5.03		\$19.05	
40 mil VLDPE	user	S.F.	3 Skwk	150		\$13.92	\$5.00		\$18.92	
	user	S.F.	3 Skwk	149 149		\$14.02 \$14.02	\$5.03 \$5.03		\$19.05	
	user	S.F.	3 Skwk	149	L	\$14.02	\$5.03		\$19.05	<u> </u>
and the second s										
onstruction Management Support										
Office Trailer, Furnished, no hook-ups	0150-500-0250	mo.			\$198.00				\$198.00	
Toilet Portable, chemical	1590-400-6410	mo.			\$214.20				\$214.20	
Imp and Casing Removal					\$412.20				\$412.20	
mp and Gasing Kemuyai		Τ								
Pump Type	Measurement	Unit				Labor	Equipment		Total	Notes
imp Removal										
Submersible ft	to pump	L.F.	T			\$7.65	\$18,86		\$26.51	
Line Shaft ft		L.F.				\$7.65	\$18.86		\$26.51	
		1								
						·				A
NOTES: (10) Pump Removal Source:										

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Misc. Unit Costs

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

ACTIVITY AND FLEET	Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
PPING	5.57 5126	(1.04113)	(1100113)	(
Rip road Waste rock dumps, heaps, tails - rip flat surfaces Surface preparation Scarify				
Small Doz	zer w/ multi-sha	nk \$105.03	\$81.52	\$186.
Totals	·	\$105.03	\$81.52	\$186.
D9R	zer w/ multi-sh	\$247.48	\$81.52	\$329.
Totals		\$247.48	\$81.52	\$329.
Large Doz	ter w/ multi-sha	nk \$336.67	\$81.52	\$418
Totals		\$336.67	\$81.52	\$418.
	w/ multi-shank		#04.COL	\$077
18G/H Totals	1	\$195.45 \$195.45	\$81.66 \$81.66	\$277. \$277.
RADING				
Grading storage and structure areas Grading waste rock dumps and heaps Grading landfills Constructing pit safety berms				
Sma	Dozer Fleet			
D7R Totals	1	\$105.03 \$105.03	\$81.52 \$81.52	\$186. \$186.
		\$105.03	\$61.32	\$100.
Mediu DeR	m Dozer Fleet	\$247.48	\$81.52	\$329.
Totals		\$247.48	\$81.52	\$329.
	e Dozer Fleet			
D10R Totals	1	\$336.67 \$336.67	\$81.52 \$81.52	\$418. \$418.
PLORATION GRADING  Backfilling and grading exploration trenches				
Grading flat exploration roads				
Small D6R	Dozer Fleet	\$95.65	\$81.52	\$177.
Totals		\$95.65	\$81.52	\$177.
	ım Dozer Fleet			
D7R Totals	1	\$105.03 \$105.03	\$81.52 \$81.52	\$186. \$186.
Laro	e Dozer Fleet			
DBR	1	\$181.65 \$181.65	\$81.52 \$81.52	\$263. \$263.
Totals		\$161.00	\$61.32	<b>\$203.</b>
CAVATING  Earthen Berms Diversion ditch excavation and backfill  Underground openings backfill - excavate and place Pit berm construction (excavator option)				
	ill Excavator			
325C Totals	1	\$81.10 \$81.10	\$81.86 \$81.86	\$162. \$162.
Maril	um Excavator			
3458	1	\$133.39 \$433.30	\$81.86	\$215.
Totals		\$133.39	\$81.86	\$215.
Larg 385BL	e Excavator	\$209.76	\$81.86	\$291.
Totals		\$209.76	\$81.86	\$291.
CAVATE AND RECONTOUR				
Recontour large roads (haul roads, access roads, etc.)				

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

ACTIVITY AND FLEET		Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
	Small Ex	cavator + Doze			
325C D7R		1	\$81.10 \$105.03	\$81.86 \$81.52	\$162. \$186.
	Total Equipment		\$186.13	\$163.38	\$349.
3458	Medium E	xcavator + Doz	<b>er</b> \$133.39	\$81.86	\$215.
D9R	Totals	1	\$247.48 \$380.87	\$81.52 \$163.38	\$329. \$544.
	L			\$100.00	4011.
385BL	Large Ex	cavator + Doze	\$209.76	\$81.86	\$291.
D10R	Totals	1	\$336.67 \$546.43	\$81.52 \$163.38	\$418. \$709.
(PLORATION ROAD/PAD RECO	ITOUR				
Recontour small roads (exploration road Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill					
D6R	Sn	nall Dozer	\$95.65	\$81.52	\$177.
	Totals		\$95.65	\$81.52	\$177.
	La	rge Dozer			
DER	Totals	1	\$181.65 \$181.65	\$81.52 \$81.52	\$263. \$263.
		Grader			
14G/H		1	\$134.32 \$134.32	\$81.66	\$215.
	Totals		\$134.32	\$81.66	\$215.
320C	Sma	I Excavator	\$60.22	\$81.86	\$142.
	Totals		\$60.22	\$81.86	\$142.
1074	Mediu	m Excavator	<b>604.40</b>	401.001	8100
325C	Totals	1	\$81.10 \$81.10	\$81.86 \$81.86	\$162. \$162.
AND HAUL AND PLACE MATER!  Rock placement  Haul overburden for backfill	AL				
Haul borrow for backfill Haul cover or growth media					
Haul borrow for backfill Haul cover or growth media		ick/Loader Flee	\$134.30	\$61.54	
Haul borrow for backfill Haul cover or growth media	Small Tru	Calculated		\$61.54 \$81.52 \$81.52	\$189.
Haul borrow for backfill Haul cover or growth media  725 9663		Calculated er 1	\$134.30 \$108.12	\$81.52	\$189. \$186.
Haul borrow for backfill Haul cover or growth media  725 9666 D7R	Load Totals	Calculated lef 1 1 1 uck/Loader Fig	\$134.30 \$108.12 \$105.03 \$347.45	\$81.52 \$81.52 \$224.58	\$189. \$186. \$572.
Haul borrow for backfill Haul cover or growth media  725 9663 D7R  740 9886	Load Totals	Calculated er 1 1 1 uck/Loader Fie Calculated er 1	\$134.30 \$108.12 \$105.03 \$347.45 et \$151.11 \$216.98	\$81.52 \$81.52 \$224.58 \$61.54 \$81.66	\$189. \$186. \$572. \$212. \$298.
Haul borrow for backfill Haul cover or growth media  725 966G D7R	Load Totals  Medium Ti	Calculated lef 1 1 1  suck/Loader Fig Calculated	\$134.30 \$108.12 \$105.03 \$347.45	\$81.52 \$81.52 \$224.58	\$189. \$186. \$572. \$212. \$298. \$263.
Haul borrow for backfill Haul cover or growth media  725 9663 D7R  740 9886	Totals  Medium Totals  Load	Calculated  1 1 1  Uck/Loader Fle Calculated  1 1 1	\$134.30 \$108.12 \$105.03 \$347.45 et \$151.11 \$216.98 \$181.65 \$549.74	\$81.52 \$81.52 \$224.58 \$61.54 \$81.66 \$81.52	\$189. \$186. \$572. \$212. \$298. \$263.
Haul borrow for backfill Haul cover or growth media  725 966G D7R  740 988G D8R	Totals  Medium Ti  Load  Totals  Large Tri	Calculated   1	\$134.30 \$108.12 \$105.03 \$347.45 set \$151.11 \$216.98 \$181.65 \$549.74	\$81.52 \$81.52 \$224.58 \$61.54 \$81.66 \$81.52 \$224.72	\$189. \$186. \$572. \$212. \$298. \$263. \$774.
Haul borrow for backfill Haul cover or growth media  725 966G D7R  740 988G D8R	Totals  Medium Totals  Load  Totals  Large Tru  Load	Calculated   1	\$134.30 \$108.12 \$105.03 \$347.45 et \$151.11 \$216.98 \$181.65 \$549.74 \$176.80 \$216.98 \$105.03	\$81.52 \$81.52 \$224.58 \$61.54 \$81.66 \$81.52 \$224.72 \$61.54 \$81.66 \$81.52	\$189. \$186. \$572. \$212. \$298. \$263. \$774. \$238. \$298. \$186.
Haul borrow for backfill Haul cover or growth media  725 966G D7R  740 988G D8R	Totals  Medium Ti  Load  Totals  Large Tri  Load  Totals	Calculated  ef 1  1  Calculated  Calculated  ef 1  Calculated  ef 1  Calculated  ick/Loader Fie  Calculated  ick/Loader Fie  Calculated  if 1  1	\$134.30 \$108.12 \$105.03 \$347.45 et  \$151.11 \$216.98 \$181.65 \$549.74  #  \$176.80 \$216.98 \$105.03 \$4498.81	\$81.52 \$81.52 \$224.58 \$61.54 \$81.66 \$81.52 \$224.72	\$189. \$186. \$572. \$212. \$298. \$263. \$774. \$238. \$298. \$186.
Haul borrow for backfill Haul cover or growth media  725 966G D7R  740 988G D8R  769D 988G D7R	Totals  Medium Ti  Load  Totals  Large Tri  Load  Totals	Calculated er 1 1 1 Calculated er 1 Calculated er 1 Calculated er 1 Calculated er 1 1 Truck/Loader Flee	\$134.30 \$108.12 \$105.03 \$347.45 et  \$151.11 \$216.98 \$181.65 \$549.74  #  \$176.80 \$216.98 \$105.03	\$81.52 \$81.52 \$224.58 \$61.54 \$81.66 \$81.52 \$224.72 \$61.54 \$81.66 \$81.52 \$224.72	\$195. \$189. \$186. \$572. \$212. \$298. \$263. \$774. \$186. \$723.
Haul borrow for backfill Haul cover or growth media  725 966G D7R  740 988G D8R  769D 988G D7R	Totals  Medium Ti  Load  Totals  Large Tri  Load  Totals	Calculated er 1 1 1 Calculated er 1 Calculated er 1 Calculated er 1 Truck/Loader Truck/Loader Calculated er 1 Calculated	\$134.30 \$108.12 \$105.03 \$347.45 et \$151.11 \$216.98 \$181.65 \$549.74 \$176.80 \$216.98 \$105.03 \$498.81	\$81.52 \$81.52 \$224.58 \$224.58 \$61.54 \$81.66 \$81.52 \$224.72 \$61.54 \$81.66 \$81.52 \$224.72	\$189. \$186. \$572. \$212. \$298. \$263. \$774. \$238. \$298. \$186. \$723.
Haul borrow for backfill Haul cover or growth media  725 9663 D7R  749 9886 D8R  7690 9886 D7R	Totals  Medium Totals  Load  Totals  Large Tri  Load  Totals  Extra Large	Calculated er 1 1 1  cuck/Loader File Calculated er 1 1  cuck/Loader File Calculated er 1 1  Truck/Loader File Calculated er 1 1  Truck/Loader File Calculated Calculated	\$134.30 \$108.12 \$105.03 \$347.45 et  \$151.11 \$216.98 \$181.65 \$549.74  it  \$176.80 \$216.98 \$105.03 \$498.81	\$81.52 \$81.52 \$224.58 \$61.54 \$81.66 \$81.52 \$224.72 \$61.54 \$81.66 \$81.52 \$224.72	\$189. \$186. \$572. \$212. \$298. \$263. \$774. \$238. \$186. \$723.
Haul borrow for backfill Haul cover or growth media  725 966G D7R  740 988G D8R  769D 988G D7R	Totals  Medium Ti Load Totals  Large Tri Load Totals  Extra Large Load Totals	Calculated er 1 1 1 Calculated er 1 Calculated er 1 Calculated er 1 Truck/Loader Truck/Loader Calculated er 1 Calculated	\$134.30 \$108.12 \$105.03 \$347.45 et \$151.11 \$216.98 \$181.65 \$549.74 it \$176.80 \$105.03 \$498.81 Signature \$426.81 \$526.98 \$105.03 \$498.81	\$81.52 \$81.52 \$224.58 \$61.54 \$81.66 \$81.52 \$224.72 \$61.54 \$81.66 \$81.52 \$224.72	\$189. \$186. \$572. \$212. \$298. \$263. \$774. \$238. \$186. \$723.
Haul borrow for backfill Haul cover or growth media  725 9663 D7R  740 9886 D8R  7690 9886 D7R  7770 9976 D7R	Totals  Medium Ti Load Totals  Large Tri Load Totals  Extra Large Load Totals	Calculated ef 1 1 1 Calculated ef 1 1 Truck/Loader Fiee Calculated ef 1 1 Calculated ef 1 1 Calculated ef 1 1 Calculated ef 1 Calculated ef 1 Calculated ef 1 Calculated ef 1 Calculated	\$134.30 \$108.12 \$105.03 \$347.45 et  \$151.11 \$216.98 \$181.65 \$549.74  \$176.80 \$216.98 \$105.03 \$498.81  \$526.99 \$105.03 \$1.057.93	\$81.52 \$81.52 \$224.58 \$61.54 \$81.66 \$81.52 \$224.72 \$61.54 \$81.66 \$81.52 \$224.72 \$61.54 \$81.66 \$81.52 \$224.72	\$189. \$186. \$572. \$212. \$298. \$298. \$2774. \$238. \$298. \$186. \$7723.
Haul borrow for backfill Haul cover or growth media  725 966G D7R  740 988G D8R  769D 988G D7R  777D 987G D7R	Totals  Medium Totals  Load  Totals  Large Tri  Load  Totals  Extra Large  Load  Totals  Scrape	Calculated er 1 1 1 Uck/Loader Flee Calculated er 1 1 1 Calculated er 1 1 Truck/Loader Flee Calculated er 1 1 Truck/Loader Flee Calculated er 1 1 Calculated er 1 1 Truck/Loader Flee Calculated er 1 1 Truck/Loader Flee Calculated er 1 1 Truck/Loader Flee Calculated	\$134.30 \$108.12 \$105.03 \$347.45 eet \$151.11 \$216.98 \$181.65 \$549.74 it \$176.80 \$216.98 \$105.03 \$498.81 \$226.98 \$105.03 \$498.81	\$81.52 \$81.52 \$224.58 \$61.54 \$81.66 \$81.52 \$224.72 \$61.54 \$81.62 \$224.72 \$61.54 \$81.52 \$224.72	\$189. \$186. \$572. \$212. \$298. \$263. \$774. \$238. \$186. \$723. \$488. \$607. \$186. \$1,282.
Haul borrow for backfill Haul cover or growth media  725 966G D7R  740 988G D8R  769D 988G D7R  777D 992G D7R	Totals  Medium Ti Load Totals  Large Tri Load Totals  Extra Large Load Totals	Calculated er 1 1 1 Calculated er 1 Calculated er 1 Calculated er 1 Calculated er 1 Calculated er 1 1 Calculated	\$134.30 \$108.12 \$105.03 \$347.45 et \$151.11 \$216.98 \$181.65 \$549.74 \$176.80 \$216.98 \$105.03 \$498.81 \$426.81 \$526.09 \$105.03 \$1,057.93	\$81.52 \$81.52 \$224.58 \$61.54 \$81.66 \$81.52 \$224.72 \$61.54 \$81.66 \$81.52 \$224.72 \$61.54 \$81.66 \$81.52 \$224.72	\$189. \$186. \$572. \$212. \$298. \$263. \$774. \$238. \$186. \$723. \$488. \$607. \$186. \$1,282.
Haul borrow for backfill Haul cover or growth media  725 966G D7R  740 988G D8R  769D 988G D7R  777D 992G D7R	Totals  Medium Ti Load Totals  Large Tri Load Totals  Extra Large Load Totals  Scrape	Calculated er 1 1 1 Calculated er 1 Calculated er 1 Calculated er 1 Calculated er 1 Calculated er 1 1 Calculated	\$134.30 \$108.12 \$105.03 \$347.45 eet \$151.11 \$216.98 \$181.65 \$549.74 it \$176.80 \$216.98 \$105.03 \$498.81 \$226.98 \$105.03 \$498.81	\$81.52 \$81.52 \$224.58 \$61.54 \$81.66 \$81.52 \$224.72 \$61.54 \$81.62 \$224.72 \$61.54 \$81.52 \$224.72	\$189. \$186. \$572. \$212. \$298. \$263. \$774. \$238. \$298. \$186. \$723. \$488. \$607. \$186. \$1,282.

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

ACTIVITY AND FLEET	Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
Totals		\$424.11	\$163.04	\$587.1
MISC LOAD AND HAUL AND EARTHWORKS				
Sludge removal Drainage controls				
Misc Cat 325B		yd3 Truck \$81.10	\$81.86	\$162.9
Dump Truck (18-12 yd3.) Totals	1	\$88.65 \$169.75	\$61.54 \$143.40	\$150.1 \$313.1
Misc - Cat D9R Dozer	Loader (5 yd3)			\$329.0
966G	1	\$247.48 \$108.12	\$81.52 \$81.52	\$189.6
Dump Truck (10-12 yd3 ) Totals	1	\$88.65 \$444.25	\$61.54 \$224.58	\$150.1 \$668.8
Misc Cat D6 Dozer /				
D6R 966G	1 1	\$95.65 \$108.12	\$81.52 \$81.52	\$177.1 \$189.6
Dump Truck (18-12 yd3 ) Totals	1	\$88.65 \$292.42	\$61.54 \$224.58	\$150.1 \$517.0
CONCRETE BREAKING Slab demolition				
Footing demolition Wall demolition				
Small - Cat 325B E	xcavator w/ H140	ID's Hammer \$81.10	\$81.86	\$162.9
H-120 (fits 325) D9R	1 1	\$41.93 \$247.48	\$0.00 \$81.52	\$41.9 \$329.0
Totals Totals		\$247.48 \$370.51	\$163.38	\$533.8
Medium - Cat 345B	Excavator w/ H18	00 s Hammer \$133.39	\$81.86	\$215.2
H-160 (fits 345) D9R	1 1	\$87.48 \$247.48	\$0.00 \$81.52	\$87.4 \$329.0
Totals		\$468.35	\$163.38	\$631.7
Large - Cat 3858 E 3858L	xcavator w/ H186	ID's Hammer \$209.76	\$81.86	\$291.6
H-130 (fits 365/385) D9R	1 1	\$116.26 \$247.48	\$0.00 \$81.52	\$116.2 \$329.0
Totals		\$573.50	\$163.38	\$736.8
ORILL HOLE ABANDONMENT	e - Grout or Cemi	ant		
Pump (plugging) Drill Rig	1	\$231.51	\$77.90	\$309.4
Driller's Helper Totals	2	\$0.00 \$231.51	\$119.46 \$197.36	\$119.4 \$428.8
Drill Hole - Inert Media	(Means Crew B-	11M+1 Laborer \$33.52	\$81.86	\$115.3
General Laborer Totals	i	\$0.00 \$33.52	\$59.49 \$141.35	\$59.4 \$174.8
Amening	ng Perforation o		Ψ141.33 <u> </u>	ψ17 <del>4.</del> 6
Heavy Duty Drill Rig	1 1	\$236.81	\$77.90	\$314.7
Driller's Hetper Totals	2	\$0.00 \$236.81	\$119.46 \$197.36	\$119.4 \$434.1
MAINTENANCE FLEET Road Grading, Dust Suppression, Clean Up				
Maintenance - Small	Water Truck and		#C4.54L	\$127.8
120H Totals	1	\$66.28 \$92.83 \$159.11	\$61.54 \$81.66 \$143.20	\$174.4 \$302.3
Maintenance - Medium	Water Truck and			
613E (5,000 gal) Water Wagon 14G/H	1 1	\$66.28 \$134.32	\$61.54 \$81.66	\$127.8 \$215.9
Totals		\$200.60	\$143.20	\$343.8
Maintenance - Large 621E (8,000 gal) Water Wagon	Water Truck and	Cat 16G Grader \$114.27	\$61.54	\$175.
16G/H Totals	1	\$195.45 \$309.72	\$81.66 \$143.20	\$277. \$452.9
PROJECT SUPERVISION			¥ : :=:=×	
Foreman	1 1	\$0.00	\$127.23	\$127.

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

ACTIVITY AND FLEET	Totals	Standard Crew Size	EQUIPMENT UNIT COST (Hourly) \$25.64	TOTAL LABOR UNIT COST (Hourly) \$127.23	TOTAL COST (Hourly) \$152.8
	101010		\$20.04	Ψ127.23	ψ10Z.c
IEANS CREW DEFINITIONS  Crew composition from Means Heavy Constru	uction 2005 Edition	by permission of R 5	Means/Reed Cons	truction Data	
For use with misc. unit costs where Means is			5.W64R67R664 66R6	a accom Bata .	
1 Cla	n - Seedling Pi	anting/Block Wa	II Demolition		
General Laborer		1 1	\$0.00	\$59.49	\$59.4
	Totals		\$0.00	\$59.49	\$59.4
2 Clab - Barbed Wire/Woo	d Fence Remo	val, Drainpipe Ir	stallation, Pum	ping, Evaporation	1
General Laborer		2	\$0.00	\$118.98	\$118.9
Light Truck - 1.5 Ton	Totals	1	\$29.52 \$29.52	\$0.00 \$118.98	\$29.5 \$148.5
2 Ci General Laborer	ab + Excavato	r - Pond Liner C	ui and roid \$0.00	\$118.98	\$118.9
325C		1	\$81.10	\$81.86	\$162.9
	Totals		\$81.10	\$200.84	\$281.9
	2 Clab +	Welder - Bat Gat			
General Laborer Welding Equipment		2	\$0.00 \$24.28	\$118.98 \$81.52	\$118.9 \$105.8
Light Truck - 1.5 Ton		1	\$29.52	\$0.00	\$29.5
	Totals		\$53.80	\$200.50	\$254.3
	3 Clab -	Foam Adit Plug	S		
General Laborer		2	\$0.00	\$118.98	\$118.9
4200 4WD Backhoe Light Truck - 1.5 Ton		1 1	\$33.52 \$29.52	\$81.86 \$0.00	\$115.3 \$29.5
-	Totals		\$63.04	\$200.84	\$263.8
	3 Clab + Wel	der - Culvert Ba	t Gate		
General Laborer		2	\$0.00	\$118.98	\$118.9
Welding Equipment 420D 4WD Backhoe		1 1	\$24.28 \$33.52	\$81.52 \$81.86	\$105.8 \$115.3
Light Truck - 1.5 Ton		1 1	\$29.52	\$0.00	\$29.5
	Totals		\$87.32	\$282.36	\$369.6
3 Clab	D - 3 Laborers	+ Foreman - De	contamination		
General Laborer Foreman		3 1	\$0.00 \$0.00	\$178.47	\$178.4 \$127.2
Supervisor's Truck		+ +	\$25.64	\$127.23 \$0.00	\$25.6
Light Truck - 1.5 Ton	Totals	1	\$29.52 \$55.16	\$0.00 \$305.70	\$29.5 \$360.8
	<u> </u>			\$300.70	ψ300.0
Skilled Laborer	3 SKWK	- Liner Installatio	on \$0.00	\$179.19	\$179.1
HDEP Welder (pipe or liner)		1	\$60.16	\$0.00	\$60.1
420D 4WD Backhoe		1	\$33.52 \$0.00	\$81.86	\$115.3 \$0.0
			\$0.00		\$0.0
	Totals		\$0.00 \$93.68	\$261.05	\$0.0 \$354.7
	L			<u> </u>	400
	B-3 - Small	Building Demoi	tion		
General Laborer		2	\$0.00	\$118.98	\$118.9
Foreman		1	\$0.00 \$0.00	\$127.23	\$127.2 \$0.0
			\$0.00		\$0.0
		QUIPMENT	\$0.00		\$0.0
928G Dump Truck (10-12 yd3 )		1 2	\$56.75 \$177.30	\$81.52 \$123.08	\$138.2 \$300.3
mands trace fronte \$413 }			\$177.30 \$0.00	\$123.UG	\$0.0
			\$0.00 \$0.00		\$0.0 \$0.0
			\$0.00		\$0.0
			\$0.00 \$0.00		\$0.0 \$0.0
			\$0.00		\$0.0
-	Totals		\$234.05	\$450.81	\$684.8
	l-6 - Chain Lin	k Fence/Culvert			
General Laborer 928G		2	\$0.00 \$56.75	\$118.98 \$81.52	\$118.9 \$138.2
7777	Totals	<u> </u>	\$56.75	\$200.50	\$257.2
	B.8 - 1 area	Building Demol	ition		_
	Large	LABOR			
General Laborer		2	\$0.00	\$118.98	\$118.9

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

		EQUIPMENT	TOTAL LABOR	TOTAL
ACTIVITY AND FLEET	Standard Crew Size	UNIT COST (Hourly)	UNIT COST (Hourly)	COST (Hourly)
Foreman	1	\$0.00	\$127.23	\$127.2
		\$0.00 \$0.00		\$0.0 \$0.0
		\$0.00		\$0.0 \$0.0
	EQUIPMENT	4e0.7e1	#A4 FA1	<b>#</b> 120.0
928G 20 Ton Crane	1	\$56.75 \$85.13	\$81.52 \$81.52	\$138.2 \$166.6
Dump Truck (10-12 yd3 )	2	\$177.30	\$123.08	\$300.3
		\$0.00		\$0.0
		\$0.00 \$0.00		\$0.0 \$0.0
		\$0.00		\$0.0
		\$0.00 \$0.00		\$0.0 \$0.0
		\$0.00		\$0.0
		\$0.00		\$0.0
		\$0.00 \$0.00		\$0.0 \$0.0
		\$0.00		\$0.0
Totals		\$319.18	\$532.33	\$851.5
B-9 - Conc	rete Wall Demoli	tion		
General Laborer	4	\$0.00	\$237.96	\$237.9
Foreman Air Compressor + tools	1	\$0,00 \$38.58	\$127.23 \$77.90	\$127.2 \$116.4
Air Compressor + cools Totals		\$38.58	\$443.09	\$481.6
Lancare Lancar				
General Laborer B-101 - G	eneral Compact	i <b>on</b> \$0.001	\$59.49	\$59.4
CS533E Vibratory Roller	1	\$60.81	\$81.86	\$142.6
Totals		\$60.81	\$141.35	\$202.1
B-11L - Fine Grading f	or Evaporation F	ond Liner Base		
General Laborer	1	\$0.00	\$59.49	\$59.4
14G/H Totals	1	\$134.32 \$134.32	\$81.66 \$141.15	\$215.9 \$275.4
	1 1	,	Ψ141.10 <sub>1</sub>	Ψ2.70.4
	- Backhoe Work		40.00	
420D 4WD Backhoe Totals	1	\$33.52 \$33.52	\$81.86 \$81.86	\$115.3 \$115.3
Non-monoment of the contract o				
8-12G - Rip-Rap	Machine Placed	(Modified) \$108.12	\$81.52	\$189.6
325C	i	\$81.10	\$81.86	\$162.9
Light Truck - 1.5 Ton	1	\$29.52	\$0.00	\$29.5
Totals		\$218.74	\$163.38	\$382.1
B-13 - Grouted f	Rip-Rap & Gabio	n Baskets		
General Laborer	4	\$0.00 \$0.00	\$237.96	\$237.9
Foreman 20 Ton Crane	1 1	\$85.13	\$127.23 \$81.52	\$127.2 \$166.6
Totals		\$85.13	\$446.71	\$531.8
P.14 BVC F	Irain Pipe Installi			
Foreman B-14 FVC L	/ram ripe mstan	\$0.00	\$127.23	\$127.2
General Laborer	4	\$0.00	\$237.96	\$237.9
420D 4WD Backhoe	1	\$33.52	\$81.86	\$115.3
Light Truck - 1.5 Ton Totals	1	\$29.52 \$63.04	\$0.00 \$447.05	\$29.5 \$510.0
Totalo			<b>V</b> 111100	<b>\$</b> 0.000
-	Remove Pipeline	** **	1,	<del></del>
Foreman	1	\$0.00	\$127.23 \$59.73	\$127.2 \$59.7
Foreman Skilled Laborer	Remove Pipeline	** **	\$127.23 \$59.73 \$59.49	\$59.7
Foreman Skilled Laborer General Laborer Light Truck - 1.5 Ton	1 1	\$0.00 \$0.00 \$0.00 \$29.52	\$59.73 \$59.49 \$0.00	\$59.7 \$59.4 \$29.5
Foreman Skilled Laborer General Laborer	1 1 1	\$0.00 \$0.00 \$0.00	\$59.73 \$59.49	\$59.7 \$59.4 \$29.5
Foreman Skilled Laborer General Laborer Light Truck × 1.5 Ton Totals	1 1 1	\$0.00 \$0.00 \$0.00 \$0.00 \$29.52 \$29.52	\$59.73 \$59.49 \$0.00	\$59.7 \$59.4
Foreman Skilled Laborer General Laborer Light Truck - 1.5 Ton Totals  B-22A + HDEP I. Skilled Laborer	1 1 1 1 nstallation * Pipe	\$0.00 \$0.00 \$0.00 \$29.52 \$29.52 <b>or Liner</b>	\$59.73 \$59.49 \$0.00 \$246.45	\$59.7 \$59.4 \$29.5 \$275.5
Foreman Skilled Laborer General Laborer Light Truck × 1.5 Ton Totals  B-22A + HDEP I Skilled Laborer General Laborer	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$0.00 \$0.00 \$0.00 \$29.52 \$29.52 <b>or Liner</b> \$0.00 \$0.00	\$59.73 \$59.49 \$0.00 \$246.45 \$59.73 \$118.98	\$59.7 \$59.4 \$29.5 \$275.9 \$59.7 \$118.9
Foreman Skilled Laborer General Laborer Light Truck - 1.5 Ton Totals  B-22A + HDEP I Skilled Laborer General Laborer D7R Light Truck - 1.5 Ton	1 1 1 1 nstallation * Pipe	\$0.00 \$0.00 \$0.00 \$29.52 \$29.52 <b>or Liner</b>	\$59.73 \$59.49 \$0.00 \$246.45	\$59.1 \$29.5 \$275.5 \$275.6 \$118.6 \$186.5 \$29.8
Foreman Skilled Laborer General Laborer Light Truck - 1.5 Ton Totals  B-22A + HDEP I Skilled Laborer General Laborer D/R Light Truck - 1.5 Ton 4200 4WD Backhoe	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$0.00 \$0.00 \$0.00 \$29.52 \$29.52 ************************************	\$59.73 \$59.49 \$0.00 \$246.45 \$59.73 \$118.98 \$81.52 \$0.00 \$81.66	\$59. \$59. \$29. \$275. \$118.9 \$118.6 \$29.3 \$115.3
Foreman Skilled Laborer General Laborer Light Truck - 1.5 Ton Totals  B-22A - HDEP I  Skilled Laborer General Laborer D/R Light Truck - 1.5 Ton 420D 4WD Backhoe Generator 5KW	nstallation - Pipe  1  1  1  1  1  1  1  1  1  1  1  1  1	\$0.00 \$0.00 \$0.00 \$29.52 \$29.52 <b>or Liner</b> \$0.00 \$0.00 \$105.03 \$29.52 \$33.52 \$143.00	\$59.73 \$59.49 \$0.00 \$246.45 \$59.73 \$118.98 \$81.52 \$0.00 \$81.66 \$0.00	\$59. \$59. \$29. \$275. \$118. \$186. \$19. \$115. \$14.
Foreman Skilled Laborer General Laborer Light Truck - 1.5 Ton Totals  B-22A + HDEP I Skilled Laborer General Laborer D/R Light Truck - 1.5 Ton 4200 4WD Backhoe	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$0.00 \$0.00 \$0.00 \$29.52 \$29.52 ************************************	\$59.73 \$59.49 \$0.00 \$246.45 \$59.73 \$118.98 \$81.52 \$0.00 \$81.66	\$59. \$59. \$29. \$275. \$118.9 \$118.6 \$29.3 \$115.3
Foreman Skilled Laborer General Laborer Light Truck - 1.5 Ton Totals  B-22A - HDEP I: Skilled Laborer General Laborer D/R Light Truck - 1.5 Ton 420D 4WD Backhoe Generator 5kW HDEP Welder (pipe or liner)	nstallation - Pipe   1	\$0.00 \$0.00 \$0.00 \$29.52 \$29.52 <b>or Liner</b> \$0.00 \$105.03 \$29.52 \$33.52 \$14.30 \$60.16 \$242.53	\$59.73 \$59.49 \$0.00 \$246.45 \$59.73 \$118.98 \$81.52 \$0.00 \$81.66 \$0.00	\$59. \$59. \$29. \$275. \$118. \$186. \$29. \$115. \$14. \$60.
Foreman Skilled Laborer General Laborer Light Truck × 1.5 Ton Totals  B-22A + HDEP I  Skilled Laborer General Laborer Jrr Light Truck × 1.5 Ton 420 4WD Backhoe Generator SKW HDEP Welder (pipe or liner) Totals  B-80A - Inst	1	\$0.00 \$0.00 \$29.52 \$29.52 or Liner \$0.00 \$105.03 \$29.52 \$33.52 \$14.30 \$60.16 \$242.53	\$59.73 \$59.49 \$0.00 \$246.45 \$59.73 \$119.98 \$81.52 \$0.00 \$8.86 \$0.00 \$3.00 \$3.42.09	\$59. \$59. \$29. \$275. \$118. \$186. \$186. \$29. \$115. \$44. \$60.
Foreman Skilled Laborer General Laborer Light Truck - 1.5 Ton Totals  B-22A - HDEP I: Skilled Laborer General Laborer D/R Light Truck - 1.5 Ton 420D 4WD Backhoe Generator 5kW HDEP Welder (pipe or liner)	nstallation - Pipe   1	\$0.00 \$0.00 \$0.00 \$29.52 \$29.52 <b>or Liner</b> \$0.00 \$105.03 \$29.52 \$33.52 \$14.30 \$60.16 \$242.53	\$59.73 \$59.49 \$0.00 \$246.45 \$59.73 \$118.98 \$81.52 \$0.00 \$81.66 \$0.00	\$59. \$59. \$29. \$275. \$118. \$186. \$29. \$115. \$14. \$60.

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

				_
ACTIVITY AND FLEET	Standard Crew Size		TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
	Link Fence (Flatbed t			
General Laborer Light Truck - 1.5 Ton	3	\$0.00 \$29.52	\$178.47 \$0.00	\$178 \$29
Tota		\$29.52	\$178.47	\$207
C-14B - Elevated Cond		A	Cavare\	
oreman	ete Siaus (Reillioi ceu	\$0.00	\$127.23	\$127
Supervisor's Truck	1	\$25.64	\$0.00	\$25
arpenter	16	\$0.00	\$1,142.08	\$1,142
Seneral Laborer Rodmen (reinforcing concrete)	2 4	\$0.00 \$0.00	\$118.98 \$238.92	\$118 \$238
Sement finisher	2	\$0.00	\$119.46	\$119
Sas Engine Vibrator	1	\$6.11	\$81.52	\$87
Concrete Pump Tota	ls 1	\$79.44 \$111.19	\$0.00 \$1,828.19	\$79 \$1,939
				<b>\$1,000</b>
C-14D - Concrete Walls For	ned in Place (Reinford			
oreman	1	\$0.00	\$127.23	\$127
Gupervison's Truck Carpenter	1 18	\$25.64 \$0.00	\$0.00 \$1,284.84	\$25 \$1,284
Seneral Laborer	2	\$0.00	\$118.98	\$118
Rodmen (reinforcing concrete)	2	\$0.00	\$119.46	\$119 \$50
Gement finisher Bas Engine Vibrator	1 1	\$0.00 \$6.11	\$59.73 \$81.52	\$59 \$87
Concrete Pump	1	\$79.44	\$0.00	\$79
Tota	ls l	\$111.19	\$1,791.76	\$1,902
	User Crew #1			
Description	n: LABOR			
General Laborer		\$0.00	\$118.98	\$118
oreman		\$0.00	\$127.23	\$127
				\$0 \$0
				\$0
				\$0
				\$0 \$0
				\$0
				\$0
		<u> </u>		\$0 \$0
				\$0
				\$0 \$0
	EQUIPMENT		LL	φυ
228G		\$56.75	\$81.52	\$138
i0 Ton Crane Dump Truck (10-12 yd3 )		\$86.98 \$177.30	\$81.52 \$123.08	\$168 \$300
D10R		\$336.67	\$81.52	\$418
Supervisor's Truck		\$25.64	\$0.00	\$25
				\$0 \$0
				\$0
				\$0
				\$0 \$0
				\$0
				\$0
				\$0 \$0
Tota	ls	\$683.34	\$613.85	\$1,297
	User Crew #2			
Description	n: LABOR			
Seneral Laborer	LABOR	\$0.00	\$118.98	\$118
Foreman		\$0.00	\$127.23	\$127
	<del>                                     </del>			\$0 \$0
				\$0
				\$0
	+	-		\$0 \$0
				\$0
				\$0
	<del>  </del>	-	-	\$0 \$0
	<del>                                     </del>			\$0
				\$0 \$0

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm

Cost Estimate Type: Surety

Cost Basis: Southern Nevada - Adjusted for Arizona

ACTIVITY AND FLEET	Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
928G	Crew Size	\$56.75	\$81.52	\$138.
50 Ton Crane		\$86.98	\$81.52	\$168.
Dump Truck (10-12 yd3 )		\$177.30	\$123.08	\$300
Supervisor's Truck		\$25.64	\$0.00	\$25.
				\$0.
				\$0.
				\$0.
				\$0. \$0.
				\$0
				\$0
				\$0
				\$0
				\$0 \$0
Totals		\$346.67	\$532.33	\$879
	User Crew #3			
Description:	LABOR		***************************************	
General Laborer		\$0.00	\$118.98	\$118.
Foreman		\$0.00	\$127.23	\$127 \$0
				φ0
				\$0
				\$0
				\$0 \$0
				\$0.
				\$0
928G	EQUIPMENT	#EA 7E1	#04 FOI	\$138
50 Ton Crane		\$56.75 \$86.98	\$81.52 \$81.52	\$168
Dump Truck (10-12 yd3 )		\$177.30	\$123.08	\$300
Supervisor's Truck		\$25.64	\$0.00	\$25
				\$0
				\$0
				\$0 \$0
				\$0
				\$0
				\$0
				\$0
				\$0
				\$0 \$0
Totals		\$346.67	\$532.33	\$879
	User Crew #4			
Description:	LABOR	0.00	\$440.00L	\$110
General Laborer Foreman		\$0.00 \$0.00	\$118.98 \$127.23	\$118 \$127
				\$0
				\$0
	1 1			\$0
				\$0
				\$0 \$0
928G	EQUIPMENT	\$56.751	\$24.52I	\$0 \$0 \$0
928G 50 Ton Crane	EQUIPMENT	\$56.75 \$86.98	\$81.52 \$81.52	\$0 \$0 \$0 \$138
50 Ton Crane Dump Truck (10-12 yd3 )	EQUIPMENT	\$86.98 \$177.30	\$81.52 \$123.08	\$0 \$0 \$138 \$168 \$300
50 Ton Crane	EQUIPMENT	\$86.98	\$81.52	\$0 \$0 \$0 \$138 \$168 \$300 \$25
50 Ton Crane Dump Truck (10-12 yd3 )	EQUIPMENT	\$86.98 \$177.30	\$81.52 \$123.08	\$0 \$0 \$0 \$138 \$168 \$300 \$25
50 Ton Crane Dump Truck (10-12 yd3 )	EQUIPMENT	\$86.98 \$177.30	\$81.52 \$123.08	\$0 \$0 \$0 \$138 \$168 \$300 \$25 \$0
50 Ton Crane Dump Truck (10-12 yd3 )	EQUIPMENT	\$86.98 \$177.30	\$81.52 \$123.08	\$0 \$0 \$1 \$138 \$168 \$300 \$25 \$0 \$0
50 Ton Crane Dump Truck (10-12 yd3 )	EQUIPMENT	\$86.98 \$177.30	\$81.52 \$123.08	\$0 \$0 \$138 \$168 \$300 \$25 \$0

7 of 10

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

ACTIVITY AND FLEET	Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
				\$0.
				\$0. \$0.
				\$0.
Totals		\$346.67	\$532.33	\$879.
	User Crew #5			
Description:	LABOR			
General Laborer		\$0.00	\$118.98	\$118.
Foreman		\$0.00	\$127.23	\$127. \$0.
				\$0.
				\$0. \$0.
				\$0.
				\$0. \$0.
				\$0. \$0.
				\$0.
				\$0. \$0.
				\$0.
	EQUIPMENT			\$0.
928G		\$56.75	\$81.52	\$138.
50 Ton Crane Dump Truck (10-12 yd3 )		\$86.98 \$177.30	\$81.52 \$123.08	\$168. \$300.
Supervisor's Truck		\$25.64	\$0.00	\$25.
				\$0. \$0.
				\$0.
				\$0. \$0.
				\$0.
				\$0. \$0.
				\$0.
				\$0. \$0.
Totals		\$346.67	\$532.33	\$879.
	User Crew #6			
Description:	LABOR			
General Laborer		\$0.00	\$118.98	\$118.
Foreman		\$0.00	\$127.23	\$127. \$0.
				\$0.
				\$0. \$0.
				\$0.
				\$0. \$0.
				\$0.
				\$0.
				<u> </u>
				\$0.
				\$0. \$0. \$0.
	EQUIPMENT			\$0. \$0. \$0. \$0.
928G 50 Ton Crane	EQUIPMENT	\$56.75 \$86.98	\$81.52 \$81.52	\$0. \$0. \$0. \$0.
50 Ton Crane Dump Truck (10-12 yd3 )	EQUIPMENT	\$86.98 \$177.30	\$81.52 \$123.08	\$0. \$0. \$0. \$0. \$138. \$168. \$300.
50 Ton Crane	EQUIPMENT	\$86.98	\$81.52	\$0. \$0. \$0. \$138. \$168. \$300.
50 Ton Crane Dump Truck (10-12 yd3 )	EQUIPMENT	\$86.98 \$177.30	\$81.52 \$123.08	\$0. \$0. \$0. \$138. \$168. \$300. \$25.
50 Ton Crane Dump Truck (10-12 yd3 )	EQUIPMENT	\$86.98 \$177.30	\$81.52 \$123.08	\$0. \$0. \$0. \$138. \$168. \$300. \$25. \$0.
50 Ton Crane Dump Truck (10-12 yd3 )	EQUIPMENT	\$86.98 \$177.30	\$81.52 \$123.08	\$0. \$0. \$0. \$138. \$168. \$300. \$25. \$0. \$0.
50 Ton Crane Dump Truck (10-12 yd3 )	EQUIPMENT	\$86.98 \$177.30	\$81.52 \$123.08	\$0. \$0. \$0. \$138. \$168. \$300. \$25. \$0. \$0. \$0.
50 Ton Crane Dump Truck (10-12 yd3 )	EQUIPMENT	\$86.98 \$177.30	\$81.52 \$123.08	\$0, \$0, \$0, \$138, \$168, \$300, \$25, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0
50 Ton Crane Dump Truck (10-12 yd3 )	EQUIPMENT	\$86.98 \$177.30	\$81.52 \$123.08	\$0, \$0, \$0, \$138, \$168, \$300, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0,
50 Ton Crane Dump Truck (10-12 yd3 )	EQUIPMENT	\$86.98 \$177.30	\$81.52 \$123.08	\$0. \$0. \$0. \$138. \$168. \$300. \$25. \$0. \$0. \$0. \$0. \$0. \$0. \$0. \$0. \$0. \$0
50 Ton Crane Dump Truck (10-12 yd3 )	EQUIPMENT	\$86.98 \$177.30	\$81.52 \$123.08	\$0, \$0, \$0, \$138. \$168. \$300, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0,
50 Ton Crane Dump Truck (10-12 yd3 ) Supervisor's Truck  Totals	EQUIPMENT  User Crew #7	\$66.98 \$177.30 \$25.64	\$81.52 \$123.08 \$0.00	\$0, \$0, \$0, \$138, \$168, \$300, \$25, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0
50 Ton Crane Dump Truck (10-12 yd3 ) Supervisor's Truck	User Crew #7	\$66.98 \$177.30 \$25.64	\$81.52 \$123.08 \$0.00	\$0, \$0, \$0, \$138, \$168, \$300, \$25, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0, \$0
50 Ton Crane Dump Truck (10-12 yd3 ) Supervisor's Truck  Totals		\$66.98 \$177.30 \$25.64	\$81.52 \$123.08 \$0.00	\$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm

Cost Estimate Type: Surety

Cost Basis: Southern Nevada - Adjusted for Arizona

QUIPMENT FLEETS				
ACTIVITY AND FLEET	Standar Crew Si		TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
			, ,,,	\$0.
				\$0.
				\$0.
				\$0. \$0.
				\$0.
				\$0.
				\$0.
	-			\$0 \$0
	<del>                                     </del>			\$0
				\$0
				\$0
928G	EQUIPMENT	\$56.75	\$81.52	\$138
50 Ton Crane	<del>                                     </del>	\$86.98	\$81.52	\$168
Dump Truck (10-12 yd3 )		\$177.30	\$123.08	\$300
Supervisor's Truck		\$25.64	\$0.00	\$25
				\$0
	<del>                                     </del>			\$0 \$0
	<del>                                     </del>			\$0
				\$0
				\$0
				\$0 \$0
	<del>                                     </del>			\$0
				\$0
				\$0
Totals		\$346.67	\$532.33	\$879
	User Crew #8			
Description:				
	LABOR			
General Laborer		\$0.00	\$118.98	\$118 \$407
Foreman	ļ	\$0.00	\$127.23	\$127 \$0
				\$0.
				\$0.
				\$0.
				\$0 \$0
	<del> </del>			\$0
	T			\$0
				\$0
				\$0. \$0.
	<del> </del>			\$0
				\$0
	EQUIPMENT			
928G		\$56.75	\$81.52	\$138
50 Ton Crane Dump Truck (10-12 yd3 )		\$86.98 \$177.30	\$81.52 \$123.08	\$168 \$300
Supervisor's Truck	<del>                                     </del>	\$25.64	\$0.00	\$25
		<b>\$25.01</b>	******	\$0
				\$0
	<del>                                     </del>			\$0 \$0
	<del>                                     </del>			\$0
				\$0
				\$0
				\$0 \$0
	+ + + -			\$0 \$0
	<del>                                     </del>			\$0
Totals		\$346.67	\$532.33	\$879
Description:	User Crew #9			
Description.	LABOR	***************************************		
General Laborer		\$0.00	\$118.98	\$118
		\$0.00	\$127.23	\$127
Foreman	1			\$0
Foreman				\$0 \$0
Foreman				ΨU
Foreman				\$0
Foreman				\$0 \$0
Foreman				\$0 \$0 \$0
Foreman				\$0 \$0 \$0 \$0
Foreman				\$0 \$0 \$0 \$0 \$0
Foreman				\$0 \$0 \$0 \$0

9 of 10

## Closure Cost Estimate Fleets (Crews)

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021
File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: SRCE\_Cost\_data-USR\_1\_12\_Rosemont Copper World\_06032021.xlsm

Cost Estimate Type: Surety

Cost Basis: Southern Nevada - Adjusted for Arizona

QUIPMENT FLEETS				
ACTIVITY AND FLEET	Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
				\$0.
				\$0.
	QUIPMENT			
928G 50 Ton Crane		\$56.75 \$86.98	\$81.52 \$81.52	\$138 \$168
Dump Truck (10-12 yd3 )		\$177.30	\$123.08	\$300
Supervisor's Truck		\$25.64	\$0.00	\$25
eapsivisor s react		Ψ20.01	\$0.00	\$0
				\$0
				\$0
				\$0
				\$0
				\$0 \$0
				\$0
				\$0
				\$0
				\$0
Totals		\$346.67	\$532.33	\$879
Use	r Crew #10			
Description:				
	LABOR			
General Laborer		\$0.00	\$59.49 \$0.00	\$59.
Foreman		\$0.00	\$0.00	\$0 \$0
				\$0
				\$0
				\$0
				\$0
				\$0
				\$0 \$0
				\$0
				\$0
				\$0
				\$0
	AU BIAFILE			\$0
928G	QUIPMENT	\$56.75	\$81.52	\$138
50 Ton Crane		\$86.98	\$81.52	\$168
Dump Truck (10-12 yd3 )		\$177.30	\$123.08	\$300
Supervisor's Truck		\$25.64	\$0.00	\$25
				\$0
				\$0
				\$0
				\$0 \$0
				\$0
				\$0
				\$0
				\$0
				\$0
				\$0.
Totals		\$346.67	\$345.61	\$692

10 of 10

Project Name: Rosemont Copper World Mined Land Reclamation Plan - Reclamation Plan

Date of Submittal: June 7, 2021

File Name: ROSEMONT Copper World MLRP\_06032021\_SRCE\_Version\_1\_4\_1\_017b\_NV\_2020.xlsm Model Version: Version 1.4.1

Cost Data: User Data

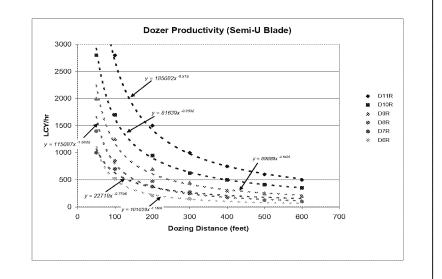
Average
Average
Average
Average
Average
50 min/hr

## Productivity - Bulldozers

Description	D11R	D10R	D9R	D8R	D7R	D6R
Blade Width (SU) (ft)	18.33	15.92	14.17	12.92	12.08	10.67
Shank Guage (3 shanks) (ft)	9.83	8.67	7.67	7.08	6.5	6.5
Pocket Spacing (ft)	4.75	4.33	3.87	3.58	3.25	3.25
Ripping Width (Ripper + 1 Pocket) (ft)	14.58	13	11.54	10.66	9.75	9.75
Ripping Speed (mph)	1	1	1	1	1	1
Ripping Maneuver (turn) Time (min)	0.25	0.25	0.25	0.25	0.25	0.25
Altitude Deration Factor	1	1	1	1	1	1
Ripping Hourly Production (excluding						
maneuvering time) (ft)	5.280	5.280	5,280	5.280	5.280	5.280

Source: Caterpillar Performance Handbook Edition 35

awarana			Production (LC	Y/hr)		
Average Dozing Distance (feet)	D11R	D10R	D9R	D8R	D7R	D6R
50	4,800	2,800	2,000	1,400	1,000	
100	2,800	1,700	1,250	850	700	520
200	1,500	950	700	475	375	210
300	1.000	625	450	275	250	150
400	750	500	300	175		
500	600	410	250	125		
600	500	350	200	100		
			Source: 0	Caterpillar Perfor	mance Handbool	k Edition
dozer productivity = k x (see graph)	Dozing Distance <sup>o</sup>					
k =	185082	81639	89889	115087	22719	10
p =	-0.919	-0.8502	-0.9425	-1.0809	-0.7796	-1.



6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 1 of 23

# Productivity - Bulldozers (cont.)

% Grade vs. Dozi	ng Factor
% Grade	Dozing Factor
-30	1.6
-20	1.4
-10	1.2
0	1
10	0.8
20	0.55
30	0.3
Source: Caterpillar P	erformance Handbook Edition 35
% Grade Dozing F	actor = -0.0214x + 0.9786
(see	graph)

OPERATOR	
Average	0.75
MATERIAL (1)	
Loose stockpile	1.2
Normal	1
Hard to cut; frozen —	
with tilt cylinder	0.8
Hard to drift; "dead" (dry,non-cohesive	
material) or very sticky material	8.0
Rock, ripped or blasted	0.6
SLOT DOZING OR SIDE BY SIDE (1)	1.2
VISIBILITY	
Good conditions	1
JOB EFFICIENCY	
50 min/hr	0.83
<ol><li>Selected in facility worksheets.</li></ol>	
Other factors included as standard factors.	
Source: Caterpillar Performan	ce Handbook Edition

Material	lb/cy	kg/m <sup>3</sup>
Alluvium	2,900	1,720
Basalt	3,300	1,960
Clay - Dry	2,500	1,480
Granite - broken	2,800	1,660
Gravel	2,550	1,510
LS - broken	2,600	1,540
LS - crushed	2,600	1,540
Sandstone	2,550	1,510
Shale	2,100	1,250
Stone - crushed	2,700	1,600
Tailings - Coarse (dry, loose sand)	2,400	1,420
Tailings - Slimes (loose sand & clay)	2,700	1,600
Topsoil	1,600	950

% Grade vs. Dozing Factor

18
16
14
12
18
08
08
08
04
02
03
20
-10
0 Grade (- Downhill, + Uphill)

Source-Colleaples-Performance Wardbook Edition %6

Note: uses Sand & Gravel - Dry from Caterpillar Handbook

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 2 of 23 Productivity

# Productivity - Scrapers

Scraper Specif	ications	
Description	631G	637G
Empty Weight	100,600	112,760
Payload Capacity (cy)		
Struck	24	24
Heaped	34	34
Average	29	29
Loaded by	One D10R	Self*
Load Time (min)	1	1
Maneuver and Spread (min)	1	1
Job Efficiency	1	1
Rolling Resistance**	3	3
Altitude Deration Factor	1	1

## \* Requires pair

"A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered

Source: Caterpilar Performance Handbook Edition 35

Weight of M	aterials		631G							637G PP						
Material	lb/cy	Scraper Load	Loaded Weight (lbs)	22	16	10	5	1	Loaged Weight (lbs)	25	15	10	5	1		
Alluvium	2,900	84,100	184,700	7.5	10	13	33	33	196,860	7	10	18.5	34	34		
Basalt	3,300	95,700	196,300	7.5	10	13	24.5	33	208,460	7	10	18.5	25	34		
Clay - Dry	2,500	72,500	173,100	7.5	10	13	33	33	185,260	7	10	18.5	34	34		
Granite - broken	2,800	81,200	181,800	7.5	10	13	33	33	193,960	7	10	18.5	34	34		
Gravel	2,550	73,950	174,550	7.5	10	13	33	33	186,710	7	10	18.5	34	34		
LS - broken	2,600	75,400	176,000	7.5	10	13	33	33	188,160	7	10	18.5	34	34		
LS - crushed	2,600	75,400	176,000	7.5	10	13	33	33	188,160	7	10	18.5	34	34		
Sandstone	2,550	73,950	174,550	7.5	10	13	33	33	186,710	7	10	18.5	34	34		
Shale	2,100	60,900	161,500	7.5	10	18	33	33	173,660	10	13.5	18.5	34	34		
Stone - crushed	2,700	78,300	178,900	7.5	10	13	33	33	191,060	7	10	18.5	34	34		
Tailings - Coarse (dry, loose sand)	2,400	69,600	170,200	7.5	10	13	33	33	182,360	7	10	18.5	34	34		
Tailings - Slimes (loose sand & clay)	2,700	78,300	178,900	7.5	10	13	33	33	191,060	7	10	18.5	34	34		
Topsoil	1,600	46,400	147,000	7.5	10	18	33	33	159,160	10	13.5	18.5	34	34		
			Empty	10	18	24.5	33	33	Empty	10	13.5	18.5	34	34		

#### Productivity - Scrapers (cont.) 631G Scraper Travel Time - Uphill Loaded Total Resistance (%) (rolling + grade) Time (min) ♦ 0.0% = 2142.7x1.3418 6000 825 5,300 2142.7 1.3418 x 2.0% := 1838.1x1.3083 1,800 750 550 4,600 1838.1 1.3083 5000 ▲ 4.0% /= 1310.7x1 1899 4,800 6,700 3.000 1310.7 1.1893 490 1,000 750 2,200 3,300 2,500 1022.1 769.01 4,500 5,600 4,200 ₫ 4000 88 6.0% /= 1022.1x1.090 375 1.0558 300 250 700 550 1,300 2,000 2,750 3,450 2,800 645.84 531.04 1.0424 ♦ 8.0% / = 769.01x<sup>1.0658</sup> 3000 452.07 1.0089 **6** $10.0\% \text{ y} = 645.84 \text{x}^{1.042a}$ distance Travel Time (min) = $\cdot i \cdot 12.0\% \, y = 531.04 x^{1.0463}$ k Source: Caterpillar Performance Handbook Edition 35 ~ 14.0% y = 452.07x1.0089 Time (min) Source: Caterpillar Performance Handbook Edition 34 631GTravel Time - Uphill Empty ♦ 0.0% y = 2496.9x<sup>1.1675</sup> 6000 631G Scraper Travel Time - Uphill Empty s 2.0% y = 2294.8x1.24 Time (min) (rolling + grade) 0.5 4.0% y = 1998.3x1.299 1.1675 1.24 1.2849 1,100 950 800 2,550 2,400 2,100 2496.9 2294.8 1998.3 5,300 4,750 4000 M 6.0% y = 1577.5x1.1988 5,550 4,300 3,450 700 600 500 1,600 1,300 1,100 900 800 3,550 2,750 2,250 1.1566 1.0891 1.0552 5,750 4,550 1287.8 1068.1 **8** 8.0% y = 1287.8x1.0891 3000 450 375 • 10.0% y = 1068.1x1 0992 2,950 2,500 3,950 3,300 4,950 4,200 923.56 783.37 1.0492 + 12.0% y = 923.56x1.0492 ~ 14.0% y = 783.37x1.044 Travel Time (min) = 1000 Source: Caterpillar Performance Handbook Edition 35 Source: Caterpillar Performance Handbook Edition 34

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved

Page 4 of 23 Productivity

#### Productivity - Scrapers (cont.) 637G PP Travel Time - Loaded • 0.0% y = 2402.9x<sup>1.2962</sup> 7000 637G Push-Pull Scraper Travel Time - Uphill Loaded Total Resistance (%) x 2.0% y = 2127.6x12995 6000 (rolling + grade) 0.5 2,500 2,200 1,700 1,300 1,100 850 1.2362 1.2995 1.2212 1,000 850 700 <u>&</u> 4.0% y = 1659.4x12212 5,150 3,900 2127.6 1659.4 5000 6,250 <sub>86</sub> 6.0% y = 1287.8x<sup>1.0891</sup> 4,300 3,300 2,700 2,300 2,000 600 500 400 2,750 2,200 1,750 5,750 4,500 3,600 3,000 2,650 1287.8 4000 5,600 4,475 1.0421 • 8.0% y = 1059.1x1.0421 839.89 375 275 750 600 1,500 3,800 751.58 595.28 1.0055 3000 **a** 10.0% y = 839.89x<sup>1.0603</sup> · 12.0% y = 751.58x1.0095 Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{\nu}}$ 2000 - 14.0% y = 595.28x1.0704 Source: Caterpillar Performance Handbook Edition 35 Time (min) Source: Caterpillar Performance Handbook Edition 34 637G PP Travel Time - Loaded 637G Push-Pull Scraper Travel Time - Uphill Empty 8000 Time (min) 2 (rolling + grade) 0.5 7000 ◆0.0% /= 2695.9x<sup>1.0948</sup> 1,250 1,200 990 2695.9 2587.1 2335.2 1.0945 1.1047 1.0234 2,750 2,600 2,450 \$2.0% /= 2587.1x<sup>1.1047</sup> 5,250 800 700 625 2,000 1,600 1,350 4,450 3,500 2,800 7,216 5,400 4,300 3,750 3,200 1914.4 1563.8 1327.4 1.2211 1.124 1.0611 **&4**.0% /= 2335.2x<sup>1,2034</sup> 7,216 5,750 50DD 7,216 x 6.0% /= 1914.4x<sup>1,2211</sup> 550 495 2,450 5,000 4,250 6,250 5,300 1168.8 1015.8 1.0524 B 4000 **⊗**8.0% /= 1563.8x<sup>1.124</sup> distance ● 10.0% /= 1327.4x<sup>1.0011</sup> Travel Time (min) = Source: Caterpillar Performance Handbook Edition 35 +12.0% y = 1168.8x 1.0524 2000 ~14.0% y = 1015.8x<sup>1.0887</sup> 1000 1.5 2.5 3.5 4.5 Time (min) Source: Caterpillar Performance Handbook Edition 34

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 5 of 23

# Productivity - Haul Trucks

Description	769D	773E	77770	785 <b>C</b>	793C	797B
Chassis Weight (lb)	53,506	70,330	113,160	170,000	259,500	473,600
Body Weight (lb)	17,350	20,300	34,785	36,788	70,785	104,200
Standard Liner Weight (lb)	7,000	8,600	12,040	16,846	24,418	8,800
Total Truck Weight (lb)	77,856	99,230	159,985	223,634	354,703	586,600
Payload Capacity (cy)			1			
Struck	21.6	34.8	55	78.5	126	228
Heaped	31.7	46	78.6	102	169	290
Average	26.65	40.4	66.8	90.25	147.5	259
Maneuver to Load Time (min)	0.7	0.7	0.7	0.7	0.7	0.7
Maneuver and Dump Time (min)	1.1	1.1	1.1	1.1	1.1	1.1
Job Efficiency	0.83	0.83	0.83	0.83	0.83	0.83
Rolling Resistance**	2.5	2.5	2.5	2.5	2.5	2.5
Altitude Deration Factor	1	1	1	1	1	1

\*\*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered

Source: Caterpillar Performance Handbook Edition 35

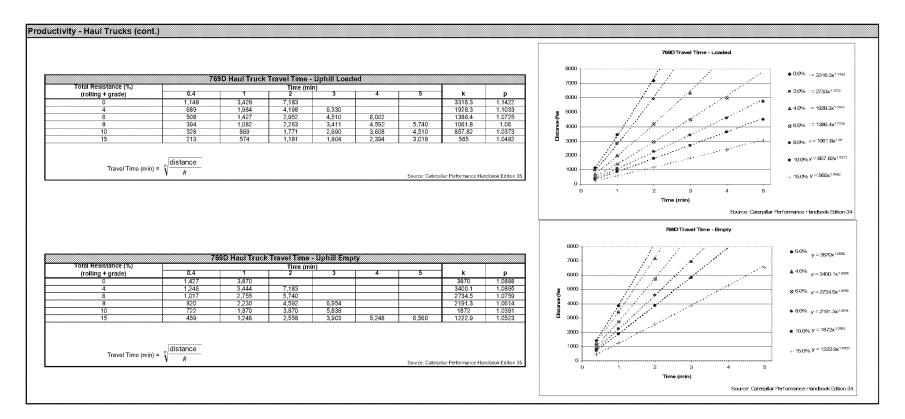
	Weight of Mat	erials			769D					773E					7770				
Material	lb/cy	Truck (769D) Load lb	Truck (773E) Load Ib	Truck (777D) Load Ib	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5	Weight (lbs)	20	15	10	5
Alluvium	2,900	77,285	117,160	193,720	155,141	11	11	15	26	216,390	7	7	13	23	353,705	7	9	12	29
Basalt	3,300	87,945	133,320	220,440	165,801	11	11	11	20	232,550	7	7	13	23	380,425	7	7	12	21
Clay - Dry	2,500	66,625	101,000	167,000	144,481	11	11	15	26	200,230	7	9	13	23	326,985	7	9	16	29
Granite - broken	2,800	74,620	113,120	187,040	152,476	11	11	15	26	212,350	7	7	13	23	347,025	7	9	12	29
Gravel	2,550	67,958	103,020	170,340	145,814	11	11	15	26	202,250	7	9	13	23	330,325	7	9	16	29
LS - broken	2,600	69,290	105,040	173,680	147,146	11	11	15	26	204,270	7	9	13	23	333,665	7	9	12	29
LS - crushed	2,600	69,290	105,040	173,680	147,146	11	11	15	26	204,270	7	9	13	23	333,665	7	9	12	29
Sandstone	2,550	67,958	103,020	170,340	145,814	11	11	15	26	202,250	7	9	13	23	330,325	7	9	16	29
Shale	2,100	55,965	84,840	140,280	133,821	11	11	15	26	184,070	7	9	13	31	300,265	7	9	16	29
Stone - crushed	2,700	71,955	109,080	180,360	149,811	11	11	15	26	208,310	7	7	13	23	340,345	7	9	12	29
Tailings - Coarse (dry, loose sand)	2,400	63,960	96,960	160,320	141,816	11	11	15	26	196,190	7	9	13	23	320,305	7	9	16	29
Tailings - Slimes (loose sand & clay)	2,700	71,955	109,080	180,360	149,811	11	11	15	26	208,310	7	7	13	23	340,345	7	9	12	29
Topsoil	1,600	42,640	64,640	106,880	120,496	11	11	15	26	163,870	7	9	17	31	266,865	9	12	16	29
***************************************	***************************************			·	Empty	15	15	26	36	Empty	13	17	23	42	Empty	16	16	29	39

Source: Caterpillar Performance Handbook Edition 35

	Weight of Mate	rials					785C					793C			1		797B		
Material	lb/cv	Truck (785C) Load Ib	Truck (793C) Load Ib	Truck (797B) Load lb	Loaded Weight (lbs)	20	15	10	5	Weight (lbs)	20	15	10	5	Weight (lbs)	20	15	10	5
Alluvium	2,900	261,725	427,750	751,100	485.359		1 8	14	27	782,453	7	7	10	17	1.337.700	7	7	9	17
Basalt	3,300	297,825	486,750	854,700	521,459	8	8	14	27	841,453	7	7	10	17	1,441,300	7	7	9	17
Clay - Dry	2,500	225,625	368,750	647,500	449,259	8	11	14	36	723,453	7	7	10	25	1,234,100	7	7	9	23
Granite - broken	2,800	252,700	413,000	725,200	476,334	8	8	14	27	767,703	7	7	10	17	1,311,800	7	7	9	17
Gravel	2,550	230,138	376,125	660,450	453,772	8	8	14	36	730,828	7	7	10	25	1,247,050	7	7	9	23
LS - broken	2,600	234,650	383,500	673,400	458,284	8	8	14	27	738,203	7	7	10	25	1,260,000	7	7	9	23
LS - crushed	2,600	234,650	383,500	673,400	458,284	8	8	14	27	738,203	7	7	10	25	1,260,000	7	7	9	23
Sandstone	2,550	230,138	376,125	660,450	453,772	8	8	14	36	730,828	7	7	10	25	1,247,050	7	7	9	23
Shale	2,100	189,525	309,750	543,900	413,159	8	11	14	36	664,453	7	7	10	25	1,130,500	7	7	13	23
Stone - crushed	2,700	243,675	398,250	699,300	467,309	8	8	14	27	752,953	7	7	10	17	1,285,900	7	7	9	23
Tailings - Coarse (dry, loose sand)	2,400	216,600	354,000	621,600	440,234	8	11	14	36	708,703	7	7	10	25	1,208,200	7	7	9	23
Tailings - Slimes (loose sand & clay) Topsoil	2,700	243,675	398,250	699,300	467,309	8	8	14	27	752,953	7	7	10	17	1,285,900	7	7	9	23
Topsoil	1,600	144,400	236,000	414,400	368,034	8	11	19	36	590,703	7	10	13	25	1,001,000	7	9	13	23
					Empty	14	19	36	36	Empty	10	13	17	33	Empty	13	17	23	42
																Saures: Cat	terrullar Perfo	rmance Handbo	nok Edito

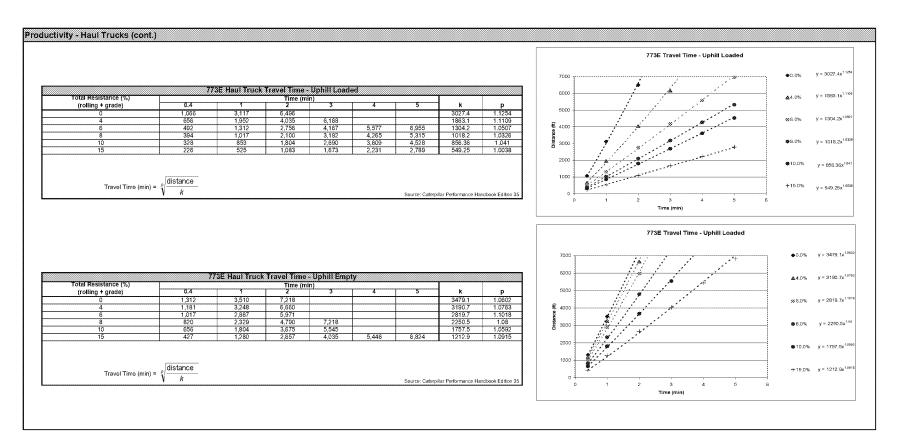
6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 6 of 23 Productivity



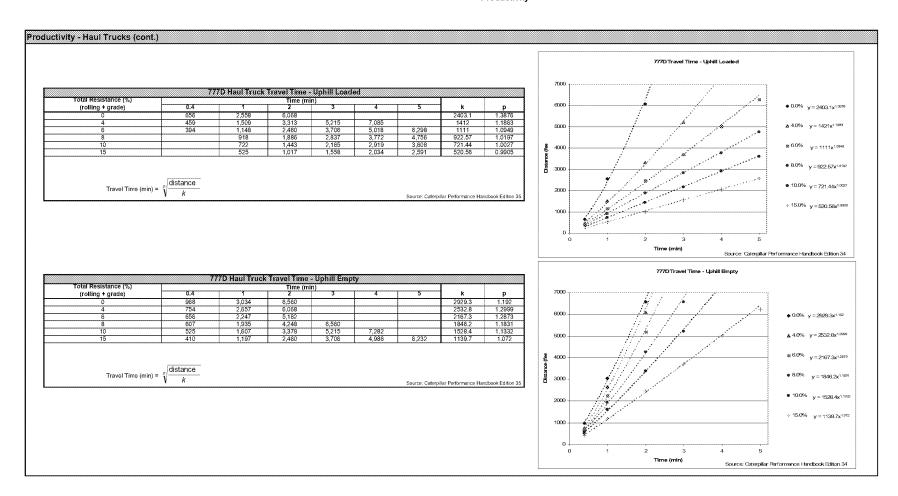
6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 7 of 23



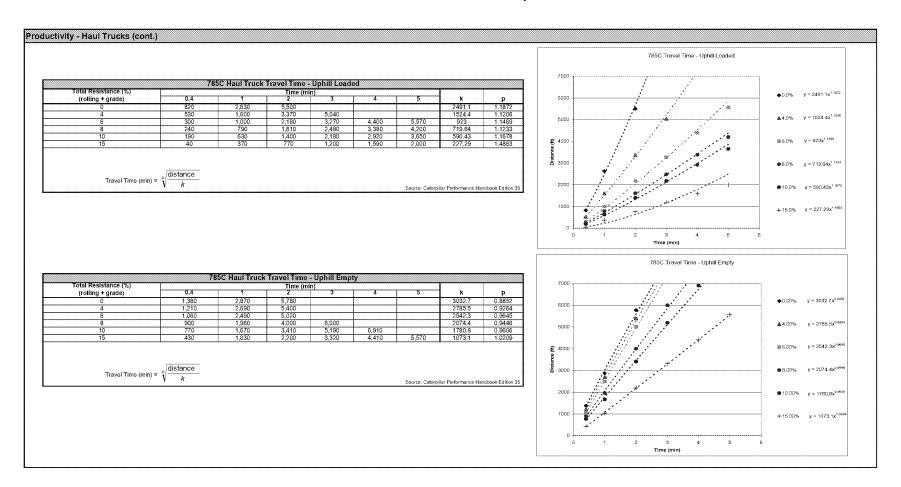
6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 8 of 23



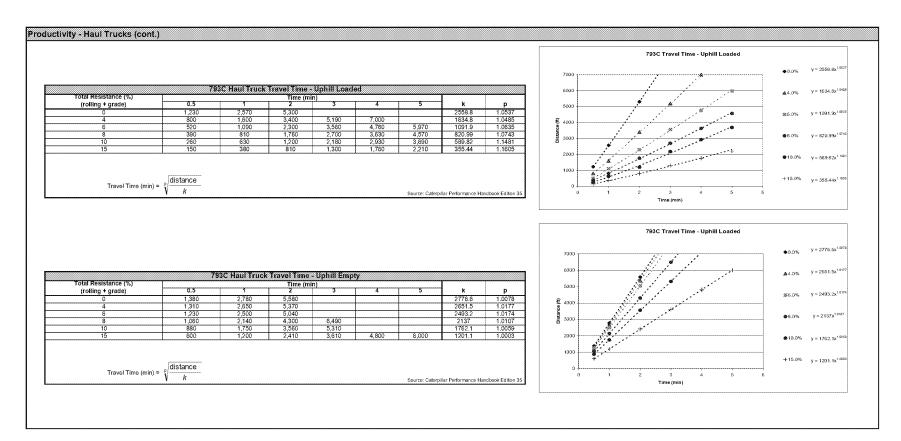
6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 9 of 23



6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 10 of 23



6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 11 of 23

#### Productivity - Haul Trucks (cont.) 797B Travel Time - Uphill Loaded $\phi$ 0.0% $y = 3670x^{0.9498}$ 797B Haul Truck Travel Time - Uphill Loaded Total Resistance (%) Time (min) 0.5 (rolling + grade) a 4.0% y = 1805.3x<sup>1.0077</sup> 3,670 1,800 1,230 940 750 500 0.9498 1.0077 1.0019 0.987 1,900 900 620 480 3670 1805.3 1234.4 944.49 3,620 2,450 1,850 5,480 3,700 2,790 2,220 1,480 5,000 3,750 2,950 2,000 y = 1234.4x1.0018 ss 6.0% 741.06 491.13 370 240 1,460 0.9957 1.0142 • 8.0% y = 944.49x<sup>0.987</sup> • 10.0% y = 741.06x<sup>0.9957</sup> distance 1000 Travel Time (min) = + 15.0% y = 491.13x<sup>1.0142</sup> Source: Caterpillar Performance Handbook Edition 35 3 Time (min) 797B Travel Time - Uphill Empty 7000 ◆ 0.0% y = 3650x1.0198 7978 Haul Truck Travel Time - Uphill Empty Total Resistance (%) 6000 Time (min) 2 0.5 & 4.0% y = 3416.6x1.0108 (rolling + grade) 1,800 1,700 3,650 3,400 3650 3416.6 1.0199 5000 6,900 1,700 1,240 960 800 5,100 3,960 3,350 2516.5 1945.9 1627.6 1.0201 1.0152 1.0239 x 6.0% y = 2516.5x1.0201 € 4000 署 3000 ● 8.0% y = 1945.9x10150 500 1,000 2,040 4,100 1006 1.0124 2000 • 10.0% y = 1627.6x1.0230 Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ 1000 + 15.0% $y = 1006x^{1.0124}$ Source: Caterpillar Performance Handbook Edition 35 Time (min)

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 12 of 23

## Productivity - Articulated Trucks

Description	725	730	735	740
Chassis Weight (lb)				
Body Weight (lb)				
Standard Liner Weight (lb)				
Operating Weight (Empty) (lb)	50,120	51,220	65,830	72,070
Payload Capacity (cy)				
Struck	14.5	17.1	19.3	23.3
Heaped	18.8	22.1	31.8	30.2
Average	16.65	19.6	25.55	26.75
Maneuver to Load Time (min)	0.7	0.7	0.7	0.7
Maneuver and Dump Time (min)	1.1	1.1	1.1	1.1
Job Efficiency	0.83	0.83	0.83	0.83
Rolling Resistance**	2.5	2.5	2.5	2.5
Altitude Deration Factor	1	1	1	1

\*\*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered

Source: Caterpillar Performance Handbook Edition 35

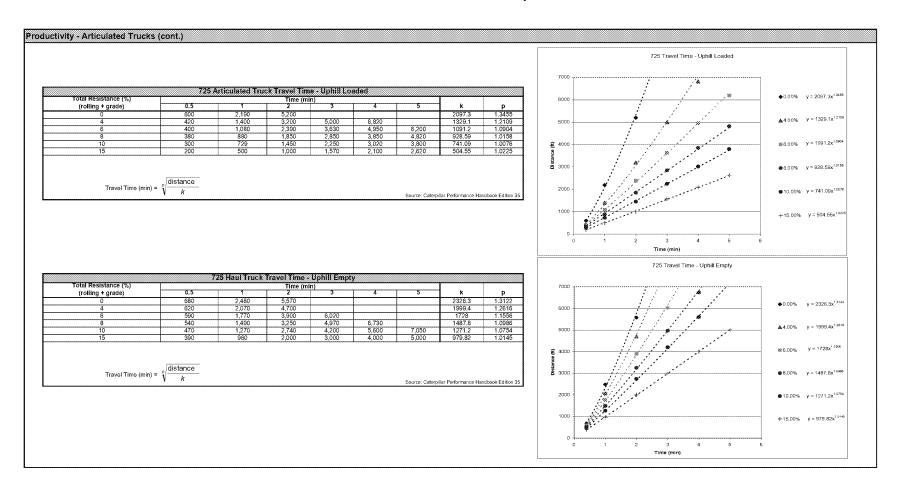
Weigh	it of Materials			725				730					
Material	lb/cy	Truck (725) Load lb	Truck (730) Load Ib	Loaded Weight (lbs)	20	15	10	5	Weight (lbs)	20	15	10	5
Alluvium	2,900	48,285	56,840	98,405	9	9	13	30	108,060	5	8	13	29
Basalt	3,300	54,945	64,680	105,065	5	9	13	22	115,900	5	8	13	29
Clay - Dry	2,500	41,625	49,000	91,745	9	13	13	30	100,220	8	8	13	29
Granite - broken	2,800	46,620	54,880	96,740	9	13	13	30	106,100	5	8	13	29
Gravel	2,550	42,458	49,980	92,578	9	13	13	30	101,200	8	8	13	29
LS - broken	2,600	43,290	50,960	93,410	9	13	13	30	102,180	8	8	13	29
LS - crushed	2,600	43,290	50,960	93,410	9	13	13	30	102,180	8	8	13	29
Sandstone	2,550	42,458	49,980	92,578	9	13	13	30	101,200	8	8	13	29
Shale	2,100	34,965	41,160	85,085	9	13	22	30	92,380	8	13	13	29
Stone - crushed	2,700	44,955	52,920	95,075	9	13	13	30	104,140	8	8	13	29
Tailings - Coarse (dry, loose sand)	2,400	39,960	47,040	90,080	9	13	13	30	98,260	8	8	13	29
Tailings - Slimes (loose sand & clay)	2,700	44,955	52,920	95,075	9	13	13	30	104,140	8	8	13	29
Topsoil	1,600	26,640	31,360	76,760	9	13	22	30	82,580	8	13	22	35
			·	Empty	13	13	22	30	Empty	13	13	22	35

Weld			Downhill Haul Truck Speed - Grade Retarding vs. Effe 735				740						
Material	lb/cy	Truck (735) Load Ib	Truck (740) Load lb	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5
Alluvium	2,900	74,095	77,575	139,925	7	9	13	27	149,645	7	9	17	23
Basalt	3,300	84,315	88,275	150,145	7	9	13	27	160,345	7	9	13	23
Clay - Dry	2,500	63,875	66,875	129,705	7	9	13	27	138,945	9	13	17	31
Granite - broken	2,800	71,540	74,900	137,370	7	9	13	27	146,970	7	9	17	23
Gravel	2,550	65,153	68,213	130,983	7	9	13	27	140,283	7	9	17	31
LS - broken	2,600	66,430	69,550	132,260	7	9	13	27	141,620	7	9	17	31
LS - crushed	2,600	66,430	69,550	132,260	7	9	13	27	141,620	7	9	17	31
Sandstone	2,550	65,153	68,213	130,983	7	9	13	27	140,283	7	9	17	31
Shale	2,100	53,655	56,175	119,485	9	9	18	27	128,245	7	13	17	31
Stone - crushed	2,700	68,985	72,225	134,815	7	9	13	27	144,295	7	9	17	23
Tailings - Coarse (dry, loose sand)	2,400	61,320	64,200	127,150	7	9	13	27	136,270	9	13	17	31
Tailings - Slimes (loose sand & clay)	2,700	68,985	72,225	134,815	7	9	13	27	144,295	7	9	17	23
Topsoil	1,600	40,880	42,800	106,710	9	13	18	36	114,870	9	13	17	31
		***************************************	<i></i>	Empty	13	18	27	42	Empty	17	17	23	31

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Source: Caterpillar Performance Handbook Edition 35

Source: Caterpillar Performance Handbook Edition 35



6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

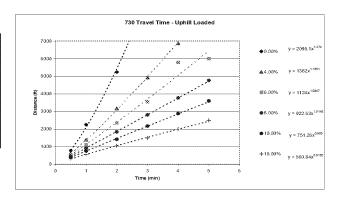
Page 14 of 23

## Productivity - Articulated Trucks (cont.)

		uticulated Tru	ck Travel Tim	e - Uphill Lo	aded			
Total Resistance (%) (rolling + grade)			Time (mi	n)				
(rolling + grade)	0.5	1	2	3	4	5	k	р
0	780	2,250	5,240				2095	1.374
4	610	1,390	3,170	4,930	6,880		1382	1.1651
6	540	1,100	2,340	3,550	5,780	6,000	112	1.0847
8	460	920	1,840	2,810	3,770	4,760	922.63	1.0145
10	390	750	1,420	2,170	2,880	3,600	751.26	0.965
15	300	560	1,050	1,500	1,995	2,500	560.84	0.9152

Travel Time (min) =  $\sqrt[p]{\frac{\text{distance}}{k}}$ 

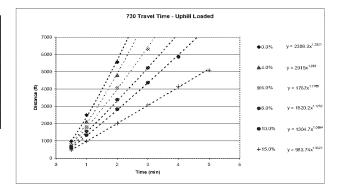
Source: Caterpillar Performance Handbook Edition 35



	77	30 Haul Truck	Travel Time -	<b>Uphill Empt</b>	y			
Total Resistance (%)			Time (mi	in)				
(rolling + grade)	0.5	1	2	3	4	5	k	р
0	980	2,500	5,560				2388	1.25621
4	810	2,100	4,810				2015	1.285
6	770	1,800	4,060	6,310			1767	1.1766
8	680	1,560	3,390	5,230	7,070		1520.2	1.1252
10	595	1,340	2,840	4,370	5,870		1304.7	1.0994
15	480	980	2,020	3,090	4,150	5,090	983.74	1.0321
	-							

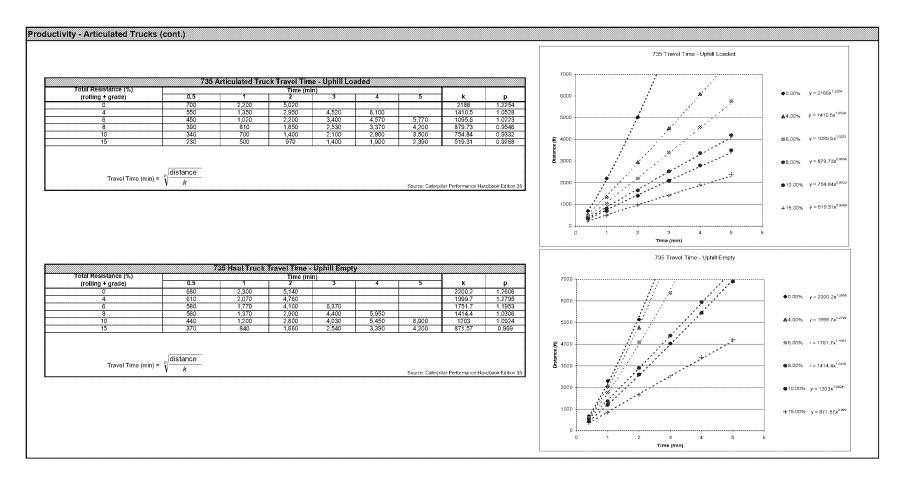
Travel Time (min) =  $\sqrt[6]{\frac{\text{distance}}{k}}$ 

Source: Caterpillar Performance Handbook Edition 35



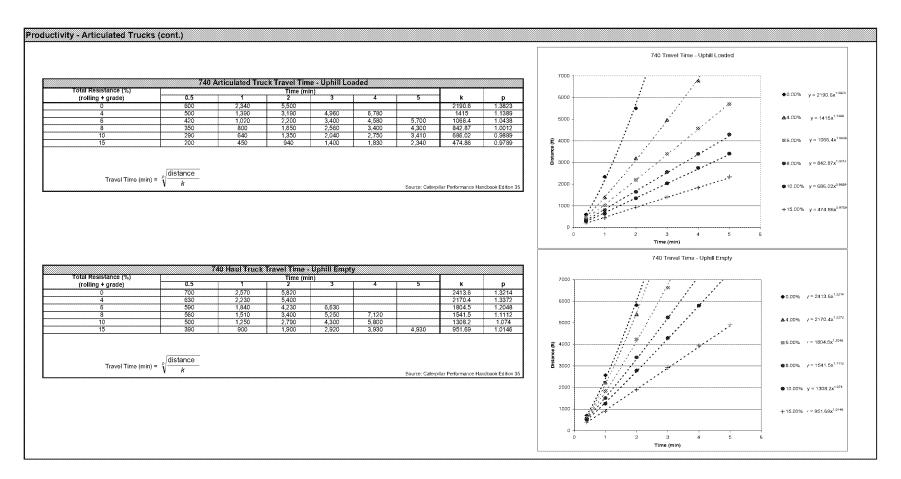
6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 15 of 23



6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 16 of 23



6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 17 of 23

## Productivity - Wheel Loaders

				Whee	l Loader Sp	ecifications								
Description	924 <b>G</b>	928G	950G	968G	972G	972G (2)	980G	988G	988G(2)	990	992G	992G(2)	994D	L2350
Payload Capacity (cy)														
Struck	2.2	2.5	3.46	4.46	4.71	4.71	6.34	6.9	6.9	9.5	13.2	13.2	18	
Heaped	2.7	3.25	4	5.25	5.5	5.5	7.25	8.33	8.33	11.25	16	16	22.5	
Average	2.45	2.875	3.73	4.855	5.105	5.105	6.795	7.615	7.515	10.375	14.6	14.6	20.25	53
Matched Truck	N/A	N/A	N/A	725	730	735	N/A	740	7690	773D	777D	785C	793C	797B
Average Cycle Time (min)	0.45	0.45	0.5	0.5	0.5	0.5	0.55	0.55	0.55	0.55	0.6	0.6	0.6	0.75
Passes to Fill Truck	N/A	N/A	N/A	3	4	5	N/A	4	3	4	5	6	7	5
Altitude Deration Factor	1	1	1	1	1	1	1	1	1000	1	1	1	1	1
Operator Efficiency	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Job Efficiency	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Time to Fill Truck	N/A	N/A	N/A	1.5	2	2.5	N/A	2.2	1.65	2.2	3	3.6	4.2	3.75
Rolling Resistance**	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5

Loader matched to small truck fleet Loader matched to medium truck fleet Loader matched to large truck fleet Loader matched to extra large truck fleet

\*\*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered 992G (2) - can be used to load 785 with 6 passes

Source: Caterpillar Performance Handbook Edition 35; LeTourneau/actual Chilean mine operating data for L2350.

		Spade Nose-
Wheeled Loaders	General Purpose	Rock
928G	3.25 cubic yard	not available
966G	5.0 cubic yard	not available
972G	5.5 cubic yard	not available
988G	not available	8.3 cubic yard
992G	not available	16.0 cubic yard

note: capacities are 2:1 heaped, SAE standards
NOTES: Buckets for both Track Excavators and Wheel Loaders are offered by CECo &
available for the rental rates quode. Bucket sizes and capacities obtained from CATERPILLAR
PERFORMANCE HANDBOOK, ED 34; Section 12, Wheel Loader and Section 4, Excavators

Bucket capacity and width dictated by material weight and configuration, ie., shot, loose, tight bank, stockpile, rock, etc. Typical Nevada applications were used to determine above bucket capacities as related to materials & densities. Job site specifics may alter specific cket requirements. (Cashman Equipment, Elko, Nevada - February 21, 2005)

## Productivity - Shovels

Description	PC2000	PC3000	PC4000	PC5500	PC8000
Payload Capacity (cy)		T	1		1
Struck	10.46	18.84	26.16	33.48	47.09
Heaped	14.39	25.9	35.97	46.04	64.75
Average	12.43	22.37	31.07	39.76	55.92
Matched Truck	740	777D	785C	793C	797B
Average Cycle Time (min)	0.49	0.49	0.59	0.59	0.69
Passes to Fill Truck	2.05	2.84	3.38	4.69	5.11
Altitude Deration Factor	1	1	0.9	1	1
Operator Efficiency	1	1	1	1	1
Job Efficiency	0.83	0.83	0.83	0.83	0.83
Time to Fill Truck	1.68	2.33	3.32	4.61	5.86
Rolling Resistance**	2.5	2.5	2.5	2.5	2.5

Shovel matched to small truck fleet
Shovel matched to medium truck fleet
Shovel matched to large truck fleet
Shovel matched to extra large truck fleet

"A firm, smooth, rolling readway with dirt or light surfacing, flexing slightly under load or undulating, maintained fauly regularly, watered 8620 (2) - can be used to load 785 with 6 passes of the control of the co

## Productivity - Motor Graders

Description	120H	14G/H	16G/H	24M
Grader Width (ft)	8	9.25	10.08	14.04
Blade Width (ft)	12	14	16	16
Ripper Width (7 shanks) (ft)	7.6	8.5	9.75	12.83
Road Maintence Speed (mph)				
Minimum	3	3	3	3
Maximum	9.5	9.5	9.5	9.5
Average	6.25	6.25	6.25	6.25
Hourly Production	33,000	33,000	33,000	33,000
Ripping Speed (mph)	1	1	1	1
Minimum	0	0	0	0
Maximum	3	3	3	3
Average	1.5	1.5	1.5	1.5
Altitude Deration Factor	1	1	1	1
Hourly Production (with job efficiency				
correction & altitude deration factors)				
excluding manuever time)	6,574	6,574	6,574	6,574
Maneuver time per pass (min)	0.5	0.5	0.5	0.5
Operator Efficiency	1	1	1	1
Job Efficiency	0.83	0.83	0.83	0.83

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 19 of 23 Productivity

Source: Caterpillar Performance Handbook Edition 35

## Productivity - Excavators

Description	312C	320C	325C	330C	345 <b>B</b>	365BL	385BL
Bucket Capacity (cy)	0.68	1.57	2.22	2.22	3	4.6	7.3
Fill Factor	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Average Bucket Load (cy)	0.612	1.413	1.998	1.998	2.7	4.14	6.57
Soil Type	packed earth	hard clay	hard clay	hard clay	hard clay	hard clay	hard cla
Job Condition	med-hard	med-hard	med-hard	med-hard	med-hard	med-hard	med-har
Cycle Times (minutes) - based on hard clay	,						
Load Bucket	0.07	0.09	0.09	0.09	0.13	0.1	0.19
Swing Loaded	0.06	0.06	0.06	0.07	0.07	0.09	0.06
Dump Bucket	0.03	0.03	0.04	0.04	0.02	0.04	0.03
Swing Empty	0.05	0.05	0.06	0.07	0.06	0.07	0.07
Total Cycle Time	0.21	0.23	0.25	0.27	0.28	0.3	0.35
Job Efficiency	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Operator Efficiency	1	1	1	1	1	1	1
Altitude Deration Factor	1	1	1	1	1	1	1
Corrected Productivity (LCY/hr)	145	306	398	369	480	687	935
Exploration Road Cycle Time ((min)	N/A	0.38	0.4	N/A	0.42	N/A	N/A
Exploration Road Corr Prod (LCY/hr)	N/A	185	249	N/A	320	N/A	N/A
Track Width (ft)	8.17	9.17	9.83	10.5	11.42	11.5	11.5
Ditch/Trench Excavation							
Bucket Capacity (cy)	0.42	0.58	0.88	0.89	2.09	3.27	2.75
Fill Factor	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Corrected Productivity (LCY/hr)	50	63	88	82	186	271	196

Track Excavators	Hvy Duty Rock	Extreme Service Exc	Hvy Duty Trench
		(e.g. haulroad recontour)	
312C	30", 0.68 cubic yd	47", 0.94 cubic yd	22", .42 cubic yd
320C	30", 0.90 cubic yd	55.1", 1.57 cubic yd	23.6", .58 cubic yd
325C	36", 1.25 cubic yd	60", 2.22 cubic yd	30", .88 cubic yd
330C	36", 1.25 cubic yd	60", 2.22 cubic yd	30", .89 cubic yd
345B	43.2", 1.69 cubic yd	65", 3.0 cubic yd	48", 2.09 cubic yd
365BL	60", 3.25 cubic yd	82", 4.6 cubic yd	59", 3.27 cubic yd
385BL	85", 6.30 cubic yd.	96.0, 7.30 cubic yd	57", 2.75 cubic yd

Note: capacities are 2:1 heaped, SAE standards NOTES: Buckets for both Track Excavators and Wheel Loaders are offered by CECo &

available for the rental rates quoted. Bucket sizes and capacities obtained from CATERPILLAR PEBF-GRIANICE HANDBOOK, ED 34; Section 12, Wheel Loader and Section 4, Excavators Bucket capacity and width dictated by material weight and configuration (i.e., shot, loose, tight bank, slockpile, rock, etc. Typical Nevada applications were used to determine above bucket capacities as related to materials & densities, bub site specific any alter specific bucket reparements ( Cashman Equipment, Elio, Nevada - February 21, 2005)

(1) Exploration cycle time assumes feathering/smoothing performed by excavator

## Concrete Breaking Production

Description	325C	345B	385BL
Hydraulic Hammer	H120D s	H160D s	H180D s
Material	reinforced concrete		
Min Shift Production (yd3/8hr)	160	300	350
Max Shift Production (yd3/8hr)	300	850	1,550
Avg Shift Production (8hr)	230	575	950
Job Efficiency	0.83	0.83	0.83
Altitude Deration Factor	1	1	1

Source: Caterpillar Performance Handbook Edition 35

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 20 of 23 Productivity

## **Drill Hole Plugging Productivity**

Description	Drill Rig	Pump Rig
Move-to-hole, set-up, tear-down ""	2	2
Trip in tremmie pipe 117	500	
Pulling casing (threaded, not cemented)	200	
Single-pass perforating (water wells)	Productivity(all p	Passes
4	60	4
6	60	4
8	50	4
12	45	6
18	40	9
24	28	12
Perforation setup,trip in/out,tear-down	2	
Perforation tool cost (wear cost) <sup>(-)</sup>	2.5	
Inert Material Placement (backfill) Grouting/Cement "' (cy/hr) Cuttings (see below) (cy/hr)		5.33 3.5
Sources:	Drillers daily log     Barrick, New W     Eagle, Idaho G	iest Gold, Agr eneral Mines
	<ol> <li>Drillers daily log Barrick</li> </ol>	s from Newm r, Target Mine
	Drillers daily log     4. WDC Explo	
	Sournce: WDC I	Exploration, Dec
uttings Placement Productivity Shift productivity (Means 02210-700-		
0120; Crew B11M)	28	cy / shift
Shift length	8	hours
Estimated Hourly Productivity	3.5	cv / hour

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Section   160		0.700	700 4500	Elevation	0000 0000		
Section   1999	MODEL	(0-2500")	(2500-5000')	(5000-7000')	(7500-10,000')	(10,000-12,000')	(12,500-15,000')
Section   100   110   150	ilidozers					CAI Usei	CAI USEI
198	96R	100	100	100	100	92	84
Section   160	DR W/ Winch	100		100			
1987	08R	100	100	100	93	85	77
THE	9R					85	
Part	D10R D11R		100	100	93		
## Common	heeled Dozers	***************************************			· · · · · · · · · · · · · · · · · · ·		
March   100	324G	100	100	100	100	92	
440 100 100 100 100 100 100 100 100 100	844	100	100	100	100	100	96
10	54G						77
Gold   100	aders	100	100	I 100 I	100	1 06 1	1 02
100	4G/H						
### A PART OF THE	6G/H	100	100	100	100	98	96
Column   C		100	100	100	100	98	96
100	112C			100	83		73
100	320C	100	100	90	87	83	76
1985   100   100   100   100   100   100   93   93   93   94	325C 330C	100	100	100	100	100	100
100	345B	100	100	100	100	93	93
Page	865BL	100	100	100	86	86	86
1100   100   100   100   100   100   97   90   1100   100   100   100   97   80   1100   100   100   100   100   97   89   1100   100   100   100   100   100   100   100   1100   100   100   100   100   100   100   100   1100   100   100   100   100   100   100   100   1100   100   100   100   100   100   100   100   1100   100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   1100   100   100   100   100   100   1100   100   100   100   100   100   1100   100   100   100   100   100   1100   100   100   100   100   100   1100   100   100   100   100   100   1100   100   100   100   100   100   1100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   100   1100   100   100   100   100   100   1100   100   100   100   100   100   1100   100   100   100   100   100   1100   100   100   100   100   100   1100   100   100   100   100   100   1100   1100   100   100   100   100   1100   1100   100   100   100   100   1100   1100   100   100   100   100   11		100	100	100	93	85	78
100	331G	100	100	100	100	97	90
## ## ## ## ## ## ## ## ## ## ## ## ##	337G	100	100	100	95	87	80
100	paders 924G	100	100	1 100	100	97	1 89
100	928G	100	100	100	100	92	85
100	950G						
100	972G	100	100	92	84	77	70
100	980G	100	100	100	100	96	88
100	988G 990	100	100	100	95	85	75
March   100	990 992G						
New York   100	994D	100	100	100	100	96	88
100   100   100   100   100   100   96   90   90   300   300   300   100   100   100   100   96   90   300		100	100	100	100	96	90
100   100   100   100   100   100   100   96   90	PC2000	100	100	100	100	96	90
100   100   100   100   100   100   96   90   90   90   90   90   90	PC3000	100	100	100	100	96	90
### Compressor + 100		100	100	100	100	96	90
### Compressor + 100	C8000	100	100	100	100	96	90
### ### ### ### ### ### ### ### ### ##	her Equipment						
SS38 Vibraroy Roller	20D 4WD Backhoe	99	97	95	91	91	91
PS3SE Sheepefoot Compactor 100 100 98 95 91 100 PS3SE Sheepefoot Compactor 100 100 100 98 95 91 100 PS3SE Sheepefoot Compactor 100 100 100 100 91 86 91 86 91 86 91 91 86 91 91 91 91 91 91 91 91 91 91 91 91 91	S533E Vibratory Roller	100	100	98	95	91	86
P633E Sheepsfoot Compactor   100   100   100   100   91   86   91   71   100   100   91   86   91   71   100   91   86   91   71   100   91   91   86   91   71   100   91   91   91   91   91   91	S633E Vibratory Roller	100	100	100	100	91	86
Section   Sect	DP333E Sheepstoot Compactor  CP633F Sheepsfoot Compactor						
arbed Truck   Compressor + tools	.ight Truck - 1.5 Ton	1.00					
Compressor + tools	Supervisor's Truck						
Celling Equipment   Cell	iatbed fruck ir Compressor + tools			<del>                                     </del>		+ +	<del>                                     </del>
Description	Velding Equipment						
Secreta Pump   Secr	leavy Duty Drill Rig						
as Engine Vibrator and a series of the serie	Pump (plugging) Drill Rig Concrete Pump	<del> </del>				<del> </del>	+
DEP Welder (pipe or liner)	as Engine Vibrator						1
Ton Crane	Generator 5KW						
Tron Crane	Ton Crane	<del> </del>		<del> </del>		<del> </del>	+
	20 Ton Crane						
cks         CR           15         100         100         100         100         95           10         100         100         100         100         95           15         100         100         100         100         99         91           16         100         100         100         100         99         91           16         100         100         100         99         91           3F         100         100         100         93         88         82           7D         100         100         100         100         93         87           5C         100         100         100         93         86         80           3GC         100         100         100         100         100         93           7B         100         100         100         100         100         93	0 Ton Crane						
100	20 Ton Crane Icks						
100	25	100	100	100			
100	730 735	100	100	100	100	100	95
9D         100         100         100         93         88         82           3E         100         100         100         100         93         85           7D         100         100         100         93         87           5C         100         100         100         93         86         80           3GC         100         100         100         100         100         93         86         80           3GC         100         100         100         100         100         93         93           7B         100         100         100         100         100         93         93	735 740						
17D         100         100         100         100         93         87           55C         100         100         100         93         86         80           33C         100         100         100         100         100         93           77B         100         100         100         100         100         93		100	100	100	93	88	82
15C         100         100         100         93         86         80           3GC         100         100         100         100         100         100         93           7FB         100         100         100         100         100         93	769D			1 400	100	93	85
13C 100 100 100 100 100 100 93 17B 100 100 100 93	769D 773E					<del></del>	
778 100 100 100 100 100 100 93	769D 773E 777D 785C	100	100	100	100		
	73E 77D 85C 93C	100 100 100	100 100	100 100	100 93	86	80

Productivity

621E (8,000 gal) Water Wagon	100	100	100	100	97	90
777D Water Truck	100	100	100	100	93	87
785C Water Truck	100	100	100	93	86	80
Dump Truck (10-12 yd3) (5)						

Notes:
User entered deration value will override values from CAT Performance Handbook, except L2350 Loader: data from actual mine performance in Chile.
Komatsu altitude deration assumed from LeTourneau L2350

6/4/2021 Copyright © 2004 - 2009 SRCE Software, All Rights Reserved.

Page 23 of 23 Productivity